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OM nucleic - nucleic search, using sw model

Run on: June 26, 2005, 21:04:48 ; Search time 3818 Seconds
(without alignments)
11251.914 Million cell updates/sec

Title: US-09-840-743-5

Perfect score: 6873

Sequence: 1 gttctccgcatgtactgc.....aaaaaaaaaaactcgag 6873

Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 6067389 seqs, 3125258755 residues

Total number of hits satisfying chosen parameters: 12134778

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_NA.*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
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- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
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- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
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- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
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- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6873	100.0	6873	10	US-09-840-743-5
2	4790.2	69.7	10620	10	US-09-840-743-7
3	4788.6	69.7	12785	10	US-09-840-743-1
4	1478	21.5	1478	10	US-09-840-743-6
5	1478	21.5	2066	21	US-10-966-482-15
6	723.8	10.5	6418	19	US-10-437-963-37689
7	676.2	9.8	2775	20	US-10-425-115-107694

C	8	657	9.6	2380	18	US-10-425-114-31374	Sequence 31374, A
	9	643	9.4	3769	19	US-10-437-963-12410	Sequence 12410, A
	10	579	8.4	2294	18	US-10-425-114-33288	Sequence 33288, A
	11	575	8.4	2917	20	US-10-425-115-107691	Sequence 107691, A
	12	523.8	7.6	1654	18	US-10-425-114-8721	Sequence 8721, Ap
	13	523.8	7.6	1896	18	US-10-424-599-28644	Sequence 28644, A
	14	411.8	6.0	758	10	US-09-840-743-44	Sequence 44, Appl
	15	399.6	5.8	1543	18	US-10-425-114-4526	Sequence 4526, Ap
	16	398	5.8	1592	20	US-10-425-115-177698	Sequence 177698, A
	17	352.6	5.1	638	10	US-09-840-743-34	Sequence 34, Appl
C	18	351.6	5.1	657	10	US-09-840-743-42	Sequence 42, Appl
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	20	338.8	4.9	766	10	US-09-840-743-50	Sequence 50, Appl
	21	329	4.8	1134	10	US-09-840-743-36	Sequence 36, Appl
	22	261	3.8	1309	20	US-10-425-115-177687	Sequence 177687, A
	23	253	3.7	616	10	US-09-840-743-38	Sequence 38, Appl
	24	250.6	3.6	706	19	US-10-437-963-35749	Sequence 35749, A
	25	233	3.4	798	10	US-09-840-743-21	Sequence 21, Appl
	26	228.2	3.3	517	10	US-09-840-743-48	Sequence 48, Appl
	27	227.6	3.3	954	18	US-10-425-114-31736	Sequence 31736, A
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	30	205	3.0	205	10	US-09-840-743-4	Sequence 4, Appli
	31	201	2.9	1248	18	US-10-425-114-1998	Sequence 1998, Ap
	32	201	2.9	1256	20	US-10-425-115-107693	Sequence 107693, A
	33	191.8	2.8	595	10	US-09-840-743-58	Sequence 58, Appl
	34	190.4	2.8	447	11	US-09-732-627A-3570	Sequence 3570, Ap
	35	188.8	2.7	449	11	US-09-732-627A-4613	Sequence 4613, Ap
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	40	179.8	2.6	640	10	US-09-840-743-60	Sequence 60, Appl
	41	167.6	2.4	663	18	US-10-424-599-46031	Sequence 46031, A
	42	159.8	2.3	535	19	US-10-767-701-1085	Sequence 1085, Ap
	43	154	2.2	557	10	US-09-840-743-26	Sequence 26, Appl
	44	151	2.2	439	10	US-09-840-743-28	Sequence 28, Appl
	45	144.6	2.1	422	19	US-10-767-701-17492	Sequence 17492, A

ALIGNMENTS

RESULT 1
US-09-840-743-5
; Sequence 5, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION: Robert L.
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yoonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 6873
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DMT cDNA
US-09-840-743-5

Query Match 100.0%; Score 6873; DB 10; Length 6873;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 6873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 6541 AGATAAGTCTCTGCTTTTGGAAAGGATTCGTATGTGTCGGTGGATTCGGAACAGAGACAA 6600

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DB 2829 CGCCACAGTCTGTTTCAGAAACAGGTGAAAGACCTGGATTTCCTTGAAACAGATAGTTTACAACCTA 2888
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DB 3069 CCAAGGTGCTGTGGAAGCAAACTTAAAGAAAGCCACGCAAACTCTGAGAACTTCCCA 3128
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; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
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; APPLICANT: Okamura, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
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; PRIOR APPLICATION NUMBER: US 09/553,690
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; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 1
; LENGTH: 12785
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DEMETER (DMT) genomic sequence
US-09-840-743-1

Query Match          69.7%; Score 4788.6; DB 10; Length 12785;
Best Local Similarity 92.6%; Pred. No. 0;
Matches 5228; Conservative 0; Mismatches 14; Indels 401; Gaps 3;

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DB 3965 TTGGGGTGAAGTGAATAAGTTTCAAGGGGGAGTGATTCATCAAGTGTGTTATGAATT 4024

QY 601 CGAGGGCTGATCCGGGGGATAGATATTTTCGAGTTCCTTTTGAGATCAAACTCAACAAG 660
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QY 721 ATGAGAGAGTGTATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 780
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DB 4205 GATTCCTGCAACACACTGGTGTGATCATATATGGGTTTTTGTGATCATGGTCTCATCAGGGCG 4264

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QY 1741 TGAATCTTAAAGAAACCGGGAGTGCCTTAAAGAAAGAAATTTTGAAGAAATCAGCAACTAATA 1800
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Db 7325 AAATGATGTTTGTGCAAAATTTTAAATTTCACTAGTTAACTATGTCAAATTAATATTC 7384
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Db 8165 GAAACAAGAACTACAAATGTCGCTCAGAAGAAACCTGATCTTTGAAAAACAATGAATTG 8224
QY 4400 GAAAGACTGTCGTTTGGTTCAGCAGGAATGATTAATTTGGGAAACAACCTCTTC 4459
Db 8225 GAAAGACTGTCGTTTGGTTCAGCAGGAATGATTAATTTGGGAAACAACCTCTTC 8284
QY 4460 CAGCAGCTATGAGCAGTGGCCACTCGACGACCATGCTAGCATATAGAGGATTTTGG 4519
Db 8285 CAGCAGCTATGAGCAGTGGCCACTCGACGACCATGCTAGCATATAGAGGATTTTGG 8344
QY 4520 AATGAAGGTGAAGGCTTTGGTTATTTCTTGGATGCTCATCTCCACCAAGAGTTTGACAGAT 4579
Db 8345 AATGAGGCTGAAGGCTTTGGTTATTTCTTGGATGCTCATCTCCACCAAGAGTTTGACAGAT 8404
QY 4580 AAAGAACAAAAATGTACCAACGAGGTTTTTTCAGACAGGTGGAAGTTTCCAGAGATT 4639
Db 8405 AAAGAACAAAAATGTACCAACGAGGTTTTTTCAGACAGGTGGAAGTTTCCAGAGATT 8464

QY 4640 CACAGTCCAGATCATACCATCAACGCTCATGAATTAACAGGAATGGATTTCTCGGTTTC 4699
Db 8465 CACAGTCCAGATCATACCATCAACGCTCATGAATTAACAGGAATGGATTTCTCGGTTTC 8524
QY 4700 CTCAGGCGCGTCCCAAGAACACACAGGAGATACCCAAATATCAATCAACAGATGAGATGAA 4759
Db 8525 CTCAGGCGCGTCCCAAGAACACACAGGAGATACCCAAATATCAATCAACAGATGAGATGAA 8584
QY 4760 TAAAGCATCCCATTTTACAAAAACAATTTTGGATCTGCTCAACTCTCTGAAAGATGCCT 4819
Db 8585 TAAAGCATCCCATTTTACAAAAACAATTTTGGATCTGCTCAACTCTCTGAAAGATGCCT 8644
QY 4820 TACAGACAGTCCAGTACCAACACAGACATCAACGATGGCTGTCTACCGAGAGATAGAAC 4879
Db 8645 TACAGACAGTCCAGTACCAACACAGACATCAACGATGGCTGTCTACCGAGAGATAGAAC 8704
QY 4880 TGCTGAAGACGTTGGTTGATTCGGCTCAGTAAACAATTTCAAGCTTTACAGACATATTTGGTCTGA 4939
Db 8705 TGCTGAAGACGTTGGTTGATTCGGCTCAGTAAACAATTTCAAGCTTTACAGACATATTTGGTCTGA 8764
QY 4940 ATCAAATTTCCAGCAATAAAGAGCAGACGCGCTTCTGCTGGGAAAAAGCCTACAAGCCAGTGGGATAG 5059
Db 8825 TTTACGAGAGATGAAGGGAACGCTTCTGCTGATGGGAAAAAGCCTACAAGCCAGTGGGATAG 8884
QY 5060 TCTCAGAAAGATGAGGAGGGAATGAAGGAGACAGAAACGAAACAAAAACAATATGGA 5119
Db 8885 TCTCAGAAAGATGAGGAGGGAATGAAGGAGACAGAAACGAAACAAAAACAATATGGA 8944
QY 5120 TTCCATAGACTATGAAGCAATAAAGACGTCGTAGTATCAGCAGATTTCTTGAGGCTATCAA 5179
Db 8945 TTCCATAGACTATGAAGCAATAAAGACGTCGTAGTATCAGCAGATTTCTTGAGGCTATCAA 9004
QY 5180 GGAAGAGGAGATGAATAACATGTTTGGCGGTACGAATTAAGGATTTCTTAGAAGCGGATGT 5239
Db 9005 GGAAGAGGAGATGAATAACATGTTTGGCGGTACGAATTAAGGATTTCTTAGAAGCGGATGT 5239
QY 5240 TAA 5242
Db 9065 TGA 9067

RESULT 4

US-09-840-743-6
; Sequence 6, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR FILING DATE: 2001-04-23
; CURRENT APPLICATION NUMBER: US 09/553,690
; PRIOR FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1478
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DMT 5' untranslated region
US-09-840-743-6

Query Match 21.5%; Score 1478; DB 10; Length 1478;

Best Local Similarity 100.0%; Pred. No. 0;		Matches 1478; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 GTTCTCGGGCATTTGACTCGCTGAGAAATCAGAAAGCTTAGATCGGTGAGCTTTTAGTGTCC	60	
Db	1 GTTCTCGGGCATTTGACTCGCTGAGAAATCAGAAAGCTTAGATCGGTGAGCTTTTAGTGTCC	60	
Qy	61 ATTTTCTGTTTATTTACAAATATATTCCTTTTCTCTCTCCCTTTTATCTGGAATT	120	
Db	61 ATTTTCTGTTTATTTACAAATATATTCCTTTTCTCTCTCCCTTTTATCTGGAATT	120	
Qy	121 TGTCTCTGCTAAATTTCCAGCTGTTTACATTTTCCGATCAGAGAGAAATCACTCGGGTTTT	180	
Db	121 TGTCTCTGCTAAATTTCCAGCTGTTTACATTTTCCGATCAGAGAGAAATCACTCGGGTTTT	180	
Qy	181 TATGTTAATCAATACATGTTTCTCTGTTTTCGATCATAAATCTCAGCTATTAAACACCTGAT	240	
Db	181 TATGTTAATCAATACATGTTTCTCTGTTTTCGATCATAAATCTCAGCTATTAAACACCTGAT	240	
Qy	241 TTTGATTTCTGGTAAATAAAACCTCTGATTTGCTTTTATCTTCACTTCCCATATAACAT	300	
Db	241 TTTGATTTCTGGTAAATAAAACCTCTGATTTGCTTTTATCTTCACTTCCCATATAACAT	300	
Qy	301 TGCCTACTTATTCGCTCTCTTTACCGTTTCCAGCTTAAATAATCTTCGCTATTCAAT	360	
Db	301 TGCCTACTTATTCGCTCTCTTTACCGTTTCCAGCTTAAATAATCTTCGCTATTCAAT	360	
Qy	361 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAATCATTTATTCGATTTTAT	420	
Db	361 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAATCATTTATTCGATTTTAT	420	
Qy	421 GGTGCAGATTCTTAGTTTAAATGTCCCTTCTTAAACCAAGTCAGATTTAAAGGAGTGTC	480	
Db	421 GGTGCAGATTCTTAGTTTAAATGTCCCTTCTTAAACCAAGTCAGATTTAAAGGAGTGTC	480	
Qy	481 GTCCATGTTGCTTTGTTTGGTGTTCGAGAGAGTTTTCGAGAGTTTAGTGAGTGTTAT	540	
Db	481 GTCCATGTTGCTTTGTTTGGTGTTCGAGAGAGTTTTCGAGAGTTTAGTGAGTGTTAT	540	
Qy	541 TTGGGGTGAGTAGTGAATAAGTTTGAAGGGGGAGTGATTCATCAAGTGTTGTTATGAATT	600	
Db	541 TTGGGGTGAGTAGTGAATAAGTTTGAAGGGGGAGTGATTCATCAAGTGTTGTTATGAATT	600	
Qy	601 CGAGGGCTGATCCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAACAAG	660	
Db	601 CGAGGGCTGATCCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAACAAG	660	
Qy	661 AGTTCATGGGTTCTTGGAATTCATTTACACCAAAAAACCTAGATCAAGTCTGATGTTAG	720	
Db	661 AGTTCATGGGTTCTTGGAATTCATTTACACCAAAAAACCTAGATCAAGTCTGATGTTAG	720	
Qy	721 ATGAGAGAGTGATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGGG	780	
Db	721 ATGAGAGAGTGATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGGG	780	
Qy	781 GATTCTGCAACCTGGTGTGGATCATTAATGGGGTTTTTGTGATCATGGTGCTCATCAGGGCG	840	
Db	781 GATTCTGCAACCTGGTGTGGATCATTAATGGGGTTTTTGTGATCATGGTGCTCATCAGGGCG	840	
Qy	841 TTACCAACTTAAGTATGATGATCAATAGCTTTAGCGGGATCACATGCAACAAGCTTGGAGTA	900	
Db	841 TTACCAACTTAAGTATGATGATCAATAGCTTTAGCGGGATCACATGCAACAAGCTTGGAGTA	900	
Qy	901 ATAGTGAGAGAGATCTTTTGGCAGGAGTGAGGTGACTTCTCTTTAGCACCCAGTTATCA	960	
Db	901 ATAGTGAGAGAGATCTTTTGGCAGGAGTGAGGTGACTTCTCTTTTAGCACCCAGTTATCA	960	
Qy	961 GAAACACCAACCGGTAATGTAGAGCCGGTCAATGGAAATTTTACTTCAGATGTGGGTATGG	1020	
Db	961 GAAACACCAACCGGTAATGTAGAGCCGGTCAATGGAAATTTTACTTCAGATGTGGGTATGG	1020	
Qy	1021 TAAATGGTCTCTTCAACCCAGAGTGGCACTTCTCAAGCTGGCTATAATGAGTTGAAATGG	1080	

Db	1021	TAAATGGTCCTTTCACCCAGAGTGGCACTTCTCAAGCTGGCTATATAGATGTTTGAATGG	1081
Qy	1081	ATGACTTGTGTTGAATCCTGATCAGATGCCCTTCTCCTTCAACAAGCTTGTGAGTGGTGGG	1140
Db	1081	ATGACTTGTGTTGAATCCTGATCAGATGCCCTTCTCCTTCAACAAGCTTGTGAGTGGTGGG	1140
Qy	1141	ATAGCTATTCAAGTTCGTCATGTGAGTGATCAAAATCTATTATTTCAGTGTGTTTTTTTTC	1200
Db	1141	ATAGCTATTCAAGTTCGTCATGTGAGTGATCAAAATCTATTATTTCAGTGTGTTTTTTTTC	1200
Qy	1201	CTTTCTTCCTGTTCTTCAGTACTTATAGATGAGAACATGAATTAGAATATCTTAAGAAAGT	1260
Db	1201	CTTTCTTCCTGTTCTTCAGTACTTATAGATGAGAACATGAATTAGAATATCTTAAGAAAGT	1260
Qy	1261	CATGGTTTTGAAACAGATGGACCTCCAGCGGTGAACAAGCCTCTTTCAATTGCAATTCCAC	1320
Db	1261	CATGGTTTTGAAACAGATGGACCTCCAGCGGTGAACAAGCCTCTTTCAATTGCAATTCCAC	1320
Qy	1321	CAATTAGAAGAGAGCAGTTGGGTCAAGTCTGTGAAAGTTCGTTTCAATATGTACCGTCAA	1380
Db	1321	CAATTAGAAGAGAGCAGTTGGGTCAAGTCTGTGAAAGTTCGTTTCAATATGTACCGTCAA	1380
Qy	1381	CGCCCACTCTGTTTCAGAACAGGTGAAAGACTGGATTCCTTGAACAGATAGTTACAACCTA	1440
Db	1381	CGCCCACTCTGTTTCAGAACAGGTGAAAGACTGGATTCCTTGAACAGATAGTTACAACCTA	1440
Qy	1441	CTGGACATGAAATCCAGAGAGCCGAAATCTTGACAAAAAGT	1478
Db	1441	CTGGACATGAAATCCAGAGAGCCGAAATCTTGACAAAAAGT	1478
RESULT 5			
US-10-966-482-15			
; Sequence 15, Application US/10966482			
; Publication No. US20050081261A1			
; GENERAL INFORMATION:			
; APPLICANT: Pennell, Roger I.			
; APPLICANT: Dang, Van Dinh			
; TITLE OF INVENTION: Methods and Compositions for Altering			
; TITLE OF INVENTION: Seed Phenotypes			
; FILE REFERENCE: 18207-002001			
; CURRENT APPLICATION NUMBER: US/10/966,482			
; CURRENT FILING DATE: 2004-10-14			
; PRIOR APPLICATION NUMBER: US 60/510,924			
; PRIOR FILING DATE: 2003-10-14			
; NUMBER OF SEQ ID NOS: 50			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 15			
; LENGTH: 2066			
; TYPE: DNA			
; ORGANISM: Arabidopsis thaliana			
; FEATURE:			
; NAME/KEY: misc_feature			
; LOCATION: (0)...(0)			
; OTHER INFORMATION: DME promoter			
US-10-966-482-15			

	Query Match	21.5%;	Score 1478;	DB 21;	Length 2066;
	Best Local Similarity	100.0%;	Pred. No. 0;		
	Matches 1478;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GTCTCCGGCATTGACTCGCCTGAGAAATCAGAAAGCTTAGATCGGTGAGCTTTTAACTCTCC	60		
Db	589	GTCTCTCCGGCATTGACTCGCCTGAGAAATCAGAAAGCTTAGATCGGTGAGCTTTTAACTCTCC	648		
Qy	61	ATTTCTCTGTTTATTTACATATTATTTCTCTTTTTTTTCTCTCTCCCTTTTTTATCTGGAATT	120		
Db	649	ATTTCTCTGTTTATTTACATATTATTTCTCTTTTTTTTCTCTCTCCCTTTTTTATCTGGAATT	708		
Qy	121	TGTTCTGCTAAATTTTCCAGCTGTTTACATTTTCCGATACGAGAGAATCACTCGGGTTTT	180		
Db	709	TGTTCTGCTAAATTTTCCAGCTGTTTACATTTTCCGATACGAGAGAATCACTCGGGTTTT	768		

QY 181 TATGTTAAATCAATACATGTTCTCTGTTTCTGATCATAAATCTCAGCTATTAAACACTGAT 240
DB 769 TATGTTAAATCAATACATGTTCTCTGTTTCTGATCATAAATCTCAGCTATTAAACACTGAT 828
QY 241 TTTGATTCGCGTAATAAACAACCTCTGATTTGCTTTTATCTTCACTTCCCATAAACAT 300
DB 829 TTTGATTCGCGTAATAAACAACCTCTGATTTGCTTTTATCTTCACTTCCCATAAACAT 888
QY 301 TGCCTTACTTTATTCGCTCTCTCTTTTACCGTTTCCAGCTTAAAAAAATCTTTCGCTATTCAAT 360
DB 889 TGCCTTACTTTATTCGCTCTCTCTTTTACCGTTTCCAGCTTAAAAAAATCTTTCGCTATTCAAT 948
QY 361 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAATCAATTTATTCGATTTTAT 420
DB 949 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAATCAATTTATTCGATTTTAT 1008
QY 421 GTGCGAGATCTTAGTTAATGTCGCTTCTCTTAAACAAGTCAGATTTAAAAAGGAGTGTTC 480
DB 1009 GGTGCAGATTTCTTAGTTAATGTCGCTTCTCTTAAACAAGTCAGATTTAAAAAGGAGTGTTC 1068
QY 481 GTCCATGTTGCTTTGTTGTTGTTGTTGAGAGAGTTTTCGGAGAGTTAGGTGAGTGTAT 540
DB 1069 GTCCATGTTGCTTTGTTGTTGTTGTTGAGAGAGTTTTCGGAGAGTTAGGTGAGTGTAT 1128
QY 541 TTGGGCTGAGGTAGTCATAAGGTTTCAAGGGGGAGTGATTCAATCAAGTGTGTTATCAATT 600
DB 1129 TTGGGCTGAGGTAGTCATAAGGTTTCAAGGGGGAGTGATTCAATCAAGTGTGTTATGAATT 1188
QY 601 CGAGGCTGATCCGGGGATAGATATTTTCGAGTTCTTTCGAGAAATCAAACTCAACAAG 660
DB 1189 CGAGGCTGATCCGGGGATAGATATTTTCGAGTTCTTTCGAGAAATCAAACTCAACAAG 1248
QY 661 AGTTCAATGGTTCCTTGGATTCATTTACACCAAAAAACCTAGATCAAGTCTGATGGTAG 720
DB 1249 AGTTCAATGGTTCCTTGGATTCATTTACACCAAAAAACCTAGATCAAGTCTGATGGTAG 1308
QY 721 ATGAGAGAGTGATAAACACGAGTCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 780
DB 1309 ATGAGAGAGTGATAAACACGAGTCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 1368
QY 781 GATTCGTGAACACTGGTGTGGATCATATATGGGGTTTTTGATCATGTGCTCATCAGGGG 840
DB 1369 GATTCGTGAACACTGGTGTGGATCATATATGGGGTTTTTGATCATGTGCTCATCAGGGG 1428
QY 841 TTACCAACTTAAATAGTATGATGATCAATAGCTTAGCGGATCACATGCACAAAGCTTCGAGTA 900
DB 1429 TTACCAACTTAAATAGTATGATGATCAATAGCTTAGCGGATCACATGCACAAAGCTTCGAGTA 1488
QY 901 ATAGTGAGAGAGATCTTTTGGCAGAGTGAGGTGACATTTCTCTTTAGCACCAGTTATCA 960
DB 1489 ATAGTGAGAGAGATCTTTTGGCAGAGTGAGGTGACATTTCTCTTTAGCACCAGTTATCA 1548
QY 961 GAAACACCAACCGGTAAATGTAGACCGGCTCAATGGAAATTTTACTTCAGATGGGTATGG 1020
DB 1549 GAAACACCAACCGGTAAATGTAGACCGGCTCAATGGAAATTTTACTTCAGATGGGTATGG 1080
QY 1021 TAAATGGTCTTTTACCCAGGTGACATTTCTCAAGCTGGCTATATGAGTTTGAATTTGG 1080
DB 1609 TAAATGGTCTTTTACCCAGGTGACATTTCTCAAGCTGGCTATATGAGTTTGAATTTGG 1668
QY 1081 ATGACTTGTGTAATCCTGATCAGATGCCCTTCTCTCTTCAAGCTTTGCTGAGTGGGG 1140
DB 1669 ATGACTTGTGTAATCCTGATCAGATGCCCTTCTCTCTTCAAGCTTTGCTGAGTGGGG 1728
QY 1141 ATAGCTTATTAAGGTTTCGTAATGTAGTGATCAAAATCTATTTTCAGTTTTTTTTTTTC 1200
DB 1729 ATAGCTTATTAAGGTTTCGTAATGTAGTGATCAAAATCTATTTTCAGTTTTTTTTTTTC 1788
QY 1201 CTTTCTTCCTGTTCTTGCAGTACTTAGAGTAGAACAATGAATTTAGATAATCTTTAAGAAAGT 1260
DB 1789 CTTTCTTCCTGTTCTTGCAGTACTTAGAGTAGAACAATGAATTTAGATAATCTTTAAGAAAGT 1848
QY 1261 CATGGTTTTGAACAGATGGACCTCCAGCGGTGAACAAGCCTCTTTTACAATTTGAATTCAC 1320

RESULT 6

US-10-437-963-37689
; Sequence 37689, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: Ia Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 37689
; LENGTH: 6418
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_41396C.1
US-10-437-963-37689

Query Match 10.5%; Score 723.8; DB 19; Length 6418;
Best Local Similarity 65.3%; Pred. No. 8.6e-177;
Matches 1074; Conservative 0; Mismatches 567; Indels 3; Gaps 1;

QY 5023 TTGCTGATGGGAAAAGCCTACAGCCAGTGGGATAGTCTCAGAAAAAGATGGAGGGGA 5082
DB 4178 TTGGGGCTGGTAAAAAGAAAACATATGATTGGGATATGTTGAGAAAAAGAGTTCTTTTACA 4237
QY 5083 ATGAGGGGAGACAGGAACGAAACAAACAAATATCGATTCCATAGACTATGAAGCAATAA 5142
DB 4238 GTCATGGTAAATAAGAAAAGATCCAGAAATGCTAAGAGACTCAATTGATTGGGAAAACAATAA 4297
QY 5143 GACGTGCTAGTATCAGCGAGATTTCTGAGGGCTATCAAGGAAAGAGGATGAATAACATGT 5202
DB 4298 GACAAGCAGAGGTGAAGGAATATCTGACAAATTTAGAGCGCAGGAATGAATACATGC 4357
QY 5203 TGGCCGTACGAATTAAGGATTTCTTAGAACGGATAGTTAAAGATCATGGTGGTATCGACC 5262
DB 4358 TGGCAGAACGGATAAAGACTTCTTAAACCGATTGGTGAGAGACCATGGGATCGATC 4417
QY 5263 TTGAATGGTTGAGAAATCTCTCTCTGATAAGCAAGGACTATCTTTGAGCATAAAGAG 5322
DB 4418 TTGAGTGGTTGCGCTATGTCGATTCAGATAAGCGAAGACTATCTTTAAGCATTAGAG 4477
QY 5323 GTCTCGGTTGAAAAAGTTGAATCGTCGCACTCTTAACACTCCACAAATCTTGCTTTCC 5382
DB 4478 GACTTGGACTTAAAGTGTGAGTGTGTGGTCTTTTGACACTCCATCATCATGGCTTTTC 4537
QY 5383 CTGTTGACACGATGTTGGAGGATAGCAGTTAGGATGGGATGGGTGCTCTTACAAACCCC 5442

Db 4538 CTGTGATCAAAATGTTGTAGTAATATGTGTAGGCTTGGATGGGTCCACCTTCAGCCCC 4597
QY 5443 TACCTGAATCACTTCAGTTTACACCTCTCGAGCTATACCAAGTCTCGAGTCCATCCAAA 5502
Db 4598 TACCCGAGTCTCTTCAGTTTGCACCTCTTGGAGATGTATCCATGCTGGAGACATACAGA 4657
QY 5503 AATTTCTTTGGCCAGAAGCTTTGCAAACTCGATCAACGAACATCTGTATGAATATACATACC 5562
Db 4658 AATACCTCTGGCCGAGGTTATGCAAGCTTGATCAACGGAATTTGTATGAGCTTCACTATC 4717
QY 5563 AACTGATTAAGTTTGAAGAGTATTTTGCACAAAGTAGACCAAAATTTGATGATGTC 5622
Db 4718 AATGATAACTTTTGAAGAGTATTTTGTACAAAAGTAGCCCAATTTGCAAGCATGCC 4777
QY 5623 CAATGAGGAGAGTGCAGACACTTTGCCAGTCTTATGCTAGTCAAGACTTTCCTTTAC 5682
Db 4778 CAATGAGACTGAGTGCAGACACTTTGCAAGTGCATTTGCCAGTGCAGGCTCGCTTTC 4837
QY 5683 CGGCACGAGGAGAGGCTTAAAGTGCACATTTCCGGTCCCTCCCGAGTCCCTTTC 5742
Db 4838 CTGGACCTGAAGAGAGGTTTGTATCATCTGGAACCCCAATAGCTGCAGAAACCTTCC 4897
QY 5743 CTCCTGTGCCATCCGATGATAGAACTACCTCTTCGTTGGAGAAATCCCTAGCAAGTG 5802
Db 4898 ACCAGACATATATAAGTTCTAGGCCCTGTAGTAACTCAGCTTGTAGTGGAAATCAAAACACT 4957
QY 5803 GAGCACATCGAATAGAGAAACCTGTGAACCAATAATTTGAAGCCGCGCTCGCCCGGGC 5862
Db 4958 GTACCATGTTATGAACATCGCCGCCAATCATTTGAGAGCCAGCAAGCCAGAACCTG 5017
QY 5863 AAGAGTGCACTGAAATTAACCGAGAGTGATTTGAAGATGCTTACTACATAGGACCCCTG 5922
Db 5018 AACATGAGACAGAGAGATGAAGAGTGTGCAATAGAGGATAGTTTGTGCGATGATCCAG 5077
QY 5923 AGAGATCCCAACATAAACTCAACATTTGAACAGTTTGGATGACTTACCGGAACACA 5982
Db 5078 AAGAAATCCCTACTATCAAGCTTAATTTTGGAGAGTTTACACAGAACCTTGAAGAGTTATA 5137
QY 5983 TG---GAAAGAAACATGGAGCTCCAAAGAGTGACATGTCCAAGGCTTTGGTTGCTTTGC 6039
Db 5138 TCGAAGCAATACATGATGATGAAGATGCTGATATGTCAAAAGGCTTTGGTCTGCTATAA 5197
QY 6040 ATCCAACTACTTCTATTTCCAACTCCCAAACTAAAGAACATTAAGCCGTCTCAGACAG 6099
Db 5198 CTCTGAGTGTGCTTCTATCCAACTCTTAAGCTCAAGATGTCACTGCCCTAAGGACAG 5257
QY 6100 AGCACAAGTGTACAGAGTCCAGATTCACATGCTCTCTGATGTATGATGAATAAGAG 6159
Db 5258 AGCACAAGTCTATGAACCTGCCAGATTCACATCCACTTCTTGAAGGATTCACACCAAGAG 5317
QY 6160 AACCAGATGATCCAAAGTCTTATCTTCTAGCTATATGGACACAGAGTGAACAGCGAAT 6219
Db 5318 AACCAGATGATCTTGGCCATACCTACTCTCTATATGAGCCAGGTGAAACAGCTCAAT 5377
QY 6220 CGGCACAAACCGCTGAAAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGACG 6279
Db 5378 CAACTGATGCACCTAAGTCCGTGCAATTTCAACAGAGAATGCTGAATATGTGCAAGCA 5437
QY 6280 AGACTTGTCTGAGTGTAAAGTCTCAGGAGAGCAACTCAACAGAGTTCAGGAGACTC 6339
Db 5438 ATACATGCTTTATGTTGCAACAGTATAGAGAGCGCAGGCCCAAAAGTTTCAGGGACAC 5497
QY 6340 TTCTGATACCTTCTCGGACTGCCATCAGAGGAGTTTTCCGCTCAACGCGACATATTTCC 6399
Db 5498 TGTGATACATGCCCCGACAGCATGAGAGAGCTTTTCACTTAATGAGACATATTTTC 5557
QY 6400 AAGTCAACGAGTTATTTGACAGACCCAGTCCAGTCTCAAAACCCATCGATGTTCTTAGAG 6459
Db 5558 AAGTCAATGAGTATTTGCTGATCATGACTCAAGCCGGAACCGATTTGATTTCCAAGGA 5617
QY 6460 ATTGGATATGGATCTCCCAAGAGAGCTGTTTATCTTCGGAACATCAATCAATAT 6519
Db 5618 GTTGGATATGGAATCTCCCTAGGAGAACTGTTTACTTTTGGAACTTCAATTTCCGACAAATAT 5677

QY 6520 TCAGAGGCTTTTCAACGAGCAGATACAGTCTCTGCTTTTGGAAAGGATTCGTATGTGTCC 6579
Db 5678 TTAAAGTTTGTGACAACTGAAGAATAACACATTTGCTTTTGGAGAGGATTTGTGTGCTGA 5737
QY 6580 GTGGATTGCAACAGAGAGCAAGAGCACCCTGCTCATTAATGCGCAAGGTTGCAATTTCTTG 6639
Db 5738 GAGGCTTTGATAGGACATCAAGAGCACCAGACCACTGTATGCAAGACTCCACTTTCCAG 5797
QY 6640 CGAGCAAAATTTGAAGAACACAA 6663
Db 5798 CAAGCAAAATTTACAGGAATAAA 5821

RESULT 7

US-10-425-115-107694
; Sequence 107694, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 107694
; LENGTH: 2775
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_29715C.1
US-10-425-115-107694

Query Match 9.8%; Score 676.2; DB 20; Length 2775;
Best Local Similarity 63.8%; Pred. No. 1.3e-164;
Matches 1042; Conservative 0; Mismatches 588; Indels 3; Gaps 1;

QY 5034 AAAAGCCCTACAGCCAGTGGGATAGTCTCAGAAAGATGTGGAGGGGAAATGAAGGAGA 5093
Db 523 AAAACGAAACTTATGACTGGGACATTTACGAAAGAAAGTGTCTTAATGTTGGGAT 582
QY 5094 CAGGAACGAAACAAACAAATATGGATTCCATAGACTATGAAGCAATAAGACGTCTAGT 5153
Db 583 AACCAAGAAATAATGATGCAAGGGATCTGTTGATTGGAGGAGCTTAGGCAAGCAGAA 642
QY 5154 ATCAGCGAGATTTCTGAGGCTATCAAGGAAAGAGGGATGAATAACAATGTTGGCCGTACGA 5213
Db 643 GTCCGAGAAATATCTGAACATATCAGAGAGAGAGGAATGAATAACATGCTAGCAGAACGA 702
QY 5214 ATTAAGATTTCTAGAACGATAGTTAAAGATCATGTTGGTGTATCGACCTTGAATGGTTG 5273
Db 703 ATAAAGGAATTCCTGAAACCGATTTGGTGACAGACCACCTGGAGGTATTGATCTTGAATGGCTA 762
QY 5274 ACAGATCTCTCTGATAAAGCAAGGACTATCTTCAGCATAGAGGTCTGGGTTG 5333
Db 763 AGAGATGTTCCACCGCAAGCAAGGAGCTTCTTCTAAGCATTAAGGGCTTGAAGTCT 822
QY 5334 AAAAGTGTGAATGGTGGGACTCTTTAAACATCCCAATCTTCTGCTTTCCCTGTTGACAG 5393
Db 823 AAAAGTGTGAGTGGTTCGTTCTCTTTCAGCTACATCATATGGCTTTTCCAGTGGACACA 882
QY 5394 AATGTTGAAGGATAGCAGTTAGGATGGGATGGGTCCTCTACCAACCCCTACCTGATCA 5453
Db 883 AATGTTGGTCGATATGTGTGAGGCTTGGATGGGTCGCTTCAACCATTTCCAGAGTCT 942
QY 5454 CTTCAAGTTACCTCTCTGGAGCTATACCCAGTGTCTGAGTCCATCCCAAAATTTCTTTGG 5513
Db 943 CTTCAAGTTACCTATTTGAAATGATATCCCTGCTGGAGACATACAGAAATGATACCTTTGG 1002

5574 TTGTGAAAGGTATTTTGCACAAAGAGTAGACCAAAATTTGTAATGCATGTCTCAATGAGAGGA 5633
1059 TTTTGGAAAGGTTTTCTGCGCAAAAGAGTAAAGCTTAATGCAATGCAATGCTCAATGAGAGCT 1118
5634 GAGTGACAGACACTTTCCAGTGTCTATGCTAGTGCAGAGCTTCTTTACCGGCACACAGAG 5693
1119 GATGTGAGCAGCTTTGCTAGTGAATTTGAGTGTCTAGGTTGCTCTTCTGCACTGAA 1178
5694 GAGAGAGCTTAAACAAGTCAACTATTCCGGTCCCTCCGAGTCTTCTCTCTGTAGCC 5753
1179 GAAATAATGTTGGTTACATTGGAAGATCCAAATGTTGTAGAGTTCTTCAACCAACATAC 1238
5754 ATCCCGATGATAGAACTACTCTTCCTGTTGGAGAAATCCCTAGCAAGTGGAGCACCATCG 5813
1239 ATAACTCAGGGAGTGTGGCCAACTTGAGTGGAGTGCAAAATATCTTAAACATGCTGTT 1298
5814 AATAGAGAAACTGTGAACCAATAATTTGAAGAGCGGCTCGCCGGGCAAGAGTCACT 5873
1299 TCTGTTAATCATCAGCAATCATCGAGGAACCACTGAGCCAGAAATGTGAACCTGAAAT 1358
5874 GAAATAACCGAGAGTGATATTGAAGATGCTTACTACAATGAGGACCTTGACGAGATCCCA 5933
1359 ATAGAGGCACATGAGGGTCAATTTGAGGATTTCTTTTGTGAAGAACTCTGATGAAATTCCT 1418
5934 ACATTAATACTCAACATTGAACAGTTTGAAGTACTCTAGGGAACACATGGAAAGAAC 5993
1419 ACCATTAATCTTAATAATCGAGGAGTTTCACACAAACTTGAAGGACTATATGCAAGCAAAC 1478
5994 A--TGGAGCTCAAGAGGTGATGTCACAGGCTTGTGCTTTGTCATCCAACT 6050
1479 AATGTTGAGATTGAATATGCTGACATGTCAAGGCAATGGTGGCCATCAGCTGATGCT 1538
6051 ACTTCTATTCCAACTCCCAACTTAAAGAACTTAGCGCTCAGGACAGACACCAAGTG 6110
1539 GCTTCCATCCAACTCCAAAGCTCAAGATGCAATCGTCTGAGGACAGACACCAAGTT 1598
6111 TAGAGCTCCAGATTCACATGCTCTCTGATGATGATGATGATGATGATGATGATGATGAT 6170
1599 TATGAATGCCAGATTCACACCTCTCTTCTGGAAGGATTCGAAACAGAGAAACAGATGAT 1658
6171 CCAAGTCTTACTCTTACTGATATGACACACAGGTTGAACAGCGAATTCGGCACACCG 6230
1659 CCTGTGCCATATCTTCTTCCATATGAGCCAGGTTGAACACTGCAATCGATCGATGCC 1718
6231 CTGAAACAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGACGAGACTTGTCT 6290
1719 CCAAGACATTCTGTGATTCAGGGAGACGGGTAGACTATGTGGAAGTTCAACATGCTTT 1778
6291 GAGTGTAAAGTGTGAGGAGAACTCAAGACAGTTCGAGGAACTCTTCTGATACCT 6350
1779 AGTTGCAACAATATACGAGAAATGCAGGCTCAGAAAGTCAGAGGAACACTTTTGATACCA 1838
6351 TGTGAGCTGCCATGAGAGAGTTCGCTCAAGGACATATTTCCAGTCAACGAG 6410
1839 TCCGGAACAGCAATGAGAGAGTTCCTCCTTAATGAGGACGATTTTCAAGTTAATGAG 1898
6411 TTATTTGACAGACACAGTCCAGTCTCAAAACCCATCGATGTTCCCTAGAGATGGATAGG 6470
1899 GTATTTGCTGACCATGCTCAAGTCAAAATCCAAATGATGTTCCAGAGAGTTGGATTTGG 1958
6471 GATCTCCCAAGAGGACTGTTTACTTTGGAACATCAGTAACATCAATATTCAGAGGCTTT 6530
1959 GACCTCCCAAGACGAACTGTTTACTTTGGAACCTCAGTTCCTTACAATAATTCAGAGGTTA 2018
6531 TCACGGACGAGATCAGTCTGCTTTTGGAAAGGATTCGATGCTCGTGGATTCGAA 6590
2019 AGACTGGAAGAGATACCAAGTCTTTTGGAGAGGATTTGTTTGGGTGAGGGCTTTGAT 2078
6591 CAGAAGCAAGAGCAGCGGCTCATTAATGGAAGGTTGCAATTTCTCGGAGCAAAATG 6650
2079 AGGACAGTGGGGCACCAGGCCCCCTTTATGCAAGGTTGCAATTTCTCTGACGAGGTT 2138
6651 AAGAACAAACAAA 6663

Db 2139 GTTAGAGGCAAAA 2151

RESULT 9

US-10-437-963-12410/c
; Sequence 12410, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 12410
; LENGTH: 3769
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1853C.1
US-10-437-963-12410

Query Match 9.4%; Score 643; DB 19; Length 3769;
Best Local Similarity 64.3%; Pred. No. 7.1e-156;
Matches 1031; Conservative 0; Mismatches 560; Indels 12; Gaps 4;

QY 5050 AGTGGATAGTCTCAGAAAAGATGTGGAGGGAATGAAGGGAATGAAGGGAACAGGGAACGAAACAAA 5109
Db 1821 ACTGGGATAATTTACGAAAAGAGTGTGCACAATCATGGGAACAGACAAAGAGTGACA 1762
QY 5110 ACAATATGATTCATAGACTATGAAGCAATGAAGAGTGTGCTAGTATCAGCAGATTTCTG 5169
Db 1761 AAGCGAGGACAACTCGATTGGGAGGAGTATGCCAGCAATGTGAATGAATATCTT 1702
QY 5170 AGGCTATCAAGAAAGAGGATGAATAACATGTGTGCGGTACGAAATTAAGGATTTCTAG 5229
Db 1701 TTGTTATCAAGAGTGAGGAATGAATAACATGCTAGCCGAAACGATATAAGACTTTCTAA 1642
QY 5230 AACGATAGTTAAAGATCATGTGTGATTCGACCTTGAATGTTGAGAGATCTCTCTCTG 5289
Db 1641 ACCGGCTGTGAGAGACCATGGAAGCAATTTGATCTTGAATGGCTTAAGAGATATTGAACCCG 1582
QY 5290 ATAAAGCCAGGACTATCTCTTGACATAAGAGTGTGCGTTTGAAGTGTGAATGCG 5349
Db 1581 ACAAGAAAGGGCTTCTCTTGAGATTAGAGGCTTGACTTAAGACACGAGTGTG 1522
QY 5350 TCCGACTCTTAACACTCCCAATCTTGTCTTCCCTGTTTCCAGTGTGAGAGGATAG 5409
Db 1521 TTGCTCTTTGACACTACACCAATGGCTTTTCCAGTGTGACAAATGTTGACGATAT 1462
QY 5410 CAGTTAGGATGGATGGGTGCTCTACAAACCTTACCTGAATCACTTCACTTACCTCC 5469
Db 1461 GGTGAGGCTTGGATGGGTGCTTCAACCTTCCCGAGTCTCTTCACTACACTTGT 1402
QY 5470 TGGAGCTATACCCAGTGTCTGAGTCCATCCAAAATTTCTTTGGCCCAAGCTTTGCAAC 5529
Db 1401 TGAAGCTGTACCCCTTGTGGAACACATACAGAAATATATTTGGCTCGATTTGTGACG 1342
QY 5530 TCGATCAACGAACTGTATGAATTAACACTCACTCACTCACTCACTCACTCACTCACTCACT 5589
Db 1341 TTGATCAATGATATTGATGAGCTTCACTCACTCACTCACTCACTCACTCACTCACTCACT 1282
QY 5590 GCACAAAGAGTAGACCAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5649

Db 1281 GTTCAAAAAGCAAGCCTAATTGCAATTCATGTCCTCAATGAGAGCTGAGTGTAAGCATTTTG 1222
Qy 5650 CCAGTGCTTATCTAGTGAAGACTTGTCTTTACCGGCACACAGGAGGAGCTTAAACNA 5709
Db 1221 CTAGTGCAATTTGCAAGTGACGGCTGCTCTCTCTGGACCTTCAAGAAGAGACTTCTAAAC 1162
Qy 5710 GTGCAACTATTCCGGTCCCTCCCGAGTCTCTTCTCTGTAGCCATCCCGATGATAGAAC 5769
Db 1161 CAGATATCCAAATGATGC-AGAGAGCAGTCACAAAATAACACATTCAGGCGCTATG 1103
Qy 5770 TACCTTCTCCGTTGGAGAAATCCCTAGCAAGTGGAGACCATCGAATAGAGAAAATCTGTG 5829
Db 1102 GGCCAACTTAGCTGGAACACGAACCATCTCTGGG-----CATGTTATGTTGACCAATAAC 1048
Qy 5830 AACCAATATTAAGAGCGGCTCCCGGCAAGAGTGCACTGAAATAACCCGAGAGTG 5889
Db 1047 AACCTATCATCAAGAACCATCAACCCAGAACCTGAACTGACATTTGAGAGGCAAGAG 988
Qy 5890 ATATTGA---AGATGCTTACTACAATGAGGACCCCTGACGAGATCCCAACAATAAACTCA 5946
Db 987 AGCCCGAAATAGAGATTTTTCAGTGAAGATCCCGATGAATTCCTATTATAATCTTA 928
Qy 5947 ACATTGAACAGTTTGGAAATGACTCT---ACGGGAACACATGAAAGAAACATGGAGTCC 6003
Db 927 ATGTCGAGGAGTTTGCACAGAACTTGAAAGTTATATTTCATCAAAACAATATCGAGATCG 868
Qy 6004 AAGAGGTGACATGTCGAAGGCTTGTGTTGCTTTCATCCCAACACTACTTCTATTCCAA 6063
Db 867 AAGATGCTGACATGTCGAATGCACTGGTTGCCATGAAGCCCTCAAGCTGCTTCAGTTCCAA 808
Qy 6064 CTCCCAAACTAAGAACATTTAGCCGCTCTCAGGACAGACCAACAGTGTACGAGCTCCCGAG 6123
Db 807 CTTTCAAGCTCAAGATGTCAACCGCTTCAGGACTGAACACCAAGTTTATGAGTTGCCAG 748
Qy 6124 ATTCAATCGTCTCTTGTATGTTATGATGATAAAGAGAACAGATGATCCAAAGTCTTATTC 6183
Db 747 ACTCAACCCCTACTTGAAGGATTTGATCAAGAGAAACAGATGATCCCTCCCATATC 688
Qy 6184 TCTTAGCTATATGACACCGAGTGAAACAGCGAATTCGGCACAACCGCTGACAGAGT 6243
Db 687 TTCTTTCTATATGGAACCCCGAGTGAAACGGCAACATCAACTGATGACCCCAAGACATTTT 628
Qy 6244 GTGGAGGGAACCGCTCTGCAAAATGTGCTTTTGACGAGACTTGTCTGAGTGTAAACAGTC 6303
Db 627 GCAACTCCBAGGAACCTGTGTAACCTCTGTGAGAGTTCGACATGCTTTAGCTGCAACAGTA 568
Qy 6304 TGAGGGAAGCAAACTCAACAGACTTTCGAGGAACCTCTTCTGATACCTTGTGCGAATGCCA 6363
Db 567 CACGGGAAATGCAGTCTCAGAAAGTTAGAGGAACCTCTCTGATACATGCTCCGCAACAGGA 508
Qy 6364 TGAGAGGAAGTTTTCGGCTCAACGGGACATATTTCCAAAGTCAACGAGTTATTTGCGAGACC 6423
Db 507 TGAGAGGAAGCTTTCCACTTAACGGGACATATTTTCAAGTTAATGAGGTATTTGCTGATC 448
Qy 6424 AGGAGTCCAGTCTCAAAACCCATCGATGTTCTCTAGAGATTTGGATATGGGATCTCCCAAGAA 6483
Db 447 ACTACTCCBAGCAAAATCCATTTGATGTTTCCACGAGTTTGGATATGGAACCTCCCAAGAC 388
Qy 6484 GGACTGTTTACTTCGGAACATCAGTAACATCAATATTCAGAGGTCTTTTCAACGGAGACGA 6543
Db 387 GAACAGTTTACTTTTGGAACTCAGTCTCTACAAATATTTTCGAGGTTTGTCAACTGGAAGAGA 328
Qy 6544 TACAGTTCTGCTTTTGGAAAGGATTCGTATGTTCGGTGGATTTCCAAACAGBAGACAAGAG 6603
Db 327 TACAACATTTGCTTTTGGAGAGGATTTGTGTCGTGAGGGCTTTTGTATAGGGAATTTGAGGG 268
Qy 6604 CACCGCGTCCATTAATGGAAGGTTTGCATTTTCTCTCGGAGCA 6646
Db 267 CACCAAGACCGCTTTACGCAAGGCTTCAATTTTCTCTGTAGCAA 225

; Sequence 33288, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 33288
; LENGTH: 2294
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLM017089A12_FLI
; US-10-425-114-33288

Query Match 8.4%; Score 575; DB 18; Length 2294;
Best Local Similarity 64.3%; Pred. No. 2.8e-138;
Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;
Qy 5300 GGACTATCTCTTGAGCATAAGAGGCTCTGGTTTGAAGAGTGTGAATGGTGGAGCTCTT 5359
Db 504 GGACTCTCTCTTAAGCATTAGAGGGCTTTGGACTCAAAAGTGTGTAGTGGCTTCTCTTT 563
Qy 5360 AACCTCCACAACTCTGCTTTCCCTGTTTGACACGAATGTGTGAAGGATAGCAGTTAGGAT 5419
Db 564 GACGCTACATCATATGGCTTTTCCAGTGGACACAAATGTGTGCGATATGTGTAGGCT 623
Qy 5420 GGGATGGGTGCTCTTACAAACCCCTACCTGAAATCACTTCAGTTTACACCTCTCTGGAGCTATA 5479
Db 624 TGGATGGGTGCGCTTCAACCATTTGCCAGAGTCTCTTCAGTTTGCACCTATTGGAAATGTA 683
Qy 5480 CCCAGTCTCGAGTCCATCCAAAATTTCTTTGGCCAAAGACTTTGCAAACTCGATCAACG 5539
Db 684 TCCCATGTGCGAGCACACAGAAAGTACCTTTGGCTCGCACTATCAAGCTAGATCAACG 743
Qy 5540 AACCTGTATGAATTTACACTACTACCACTGATTAAGTGTTCGAAAGTATTTTGCAAAAGAG 5599
Db 744 TACATTGTATGAGCTTCACTACCAATGATTTACTTTTGGAAAGGTTTTCGCAAAAAG 803
Qy 5600 TAGACCAAAATTTAATGCAATGTCCAAATGAGAGGAGTGCAGACACTTTTGCAGTGTCTTA 5659
Db 804 TAAGCCTAATTTGCAATTCATGTCCATTTGAGAGCTGAATGTAAAGCACTTTGCTAGTGCAAT 863
Qy 5660 TGCTAGTCAAGACTTGTCTTTTACCGGCACAGAGAGGAGCTTAAACAAGTGCACATAT 5719
Db 864 TGCAAGTCTAGGCTTGTCTTCCCGCACCTTGAAGAAAACGTTTGGCTACATCGGAGGA 923
Qy 5720 TCCGCTCCCTCCGAGTCTTTTCTCTCTGTAGCCATCCGATGATAGAACTACCTCTTCC 5779
Db 924 TCCAAATGTTGTAGAGTTTGTCCCAACATACATAAATTCAGGGGCTGTGTGGCGAAT 983
Qy 5780 GTTGGAGAAATCCCTAGCAAGTGGAGCACCATTCGAAATAGAGAAAACCTGTGAACCAATAT 5839
Db 984 TGAGTGGAGTGCAGAACTATCTTAAGCATGCTGTTTGTGTAACTTACCTGCAGCCCTTCATTGA 1043
Qy 5840 TGAAGAGCGGCTCGCCCGGCGAGAGTGCATGAAATAACCGAGAGTATTTGAAGA 5899
Db 1044 GGAACCACTGAGCCAGAAACCTGAAATGTAGAGGCGAAGGCGGTGCAATAGA 1103
Qy 5900 TGCTTACTACAAATGAGGACCTCTGACGAGATCCCAACAATAAACTCAACATTTGAACAGTT 5959
Db 1104 GGATTTCTTAAATGAGACCTCTGATGAATTTCTTACTATTAATCTTAATTTTGGAGGTT 1163
Qy 5960 TGGAAATGACTCTACGGGAACACATGGAAAGAAACA---TGGAGCTCCAGAAAGGTGACAT 6016

Db 1164 TACACAGAACTTGAAGAACTATATGCAAGCAAAACCAATGTTGAGATTGAGATGCTGACAT 1223
QY 6017 GTCCAGGCTTTGGTTGCTTTGTCATCCAACTACTCTTATTCCTCAACTCCCAAACTAA 6076
Db 1224 GTCAAGGCAATGGTTGCCATCACCTCGAAGTCTTCCATTCCTCAACTCCAAAGCTCAA 1283
QY 6077 GAACATTAGCGCTCTCAGGACAGAGACCAAGTGTACGAGCTCCAGATTCACATGCTCT 6136
Db 1284 GAATGTCACTGCTTTAGGACAGAAACCAAGTTTATGAAGTTCAGGAGTTTCAACCTCT 1343
QY 6137 CTTGATGCTATGATTAAGAGAACCAAGTATCCAACTGCTTATCTCTTAGCTATATG 6196
Db 1344 TCTGGAAGATTGAAACAGAGAAACCAAGTATCCCTGCTGCTATATCTCTTTCCATATG 1403
QY 6197 GACACAGGTGAACAGCAAACTTCGGCACAACCGCTGAAACAGAGTGTGAGGGAAGC 6256
Db 1404 GACCCAGGTGAACAGTGCACATCAACCAATGCGCCCAAGACATCTGTGATTCAGGGGA 1463
QY 6257 GTCTGCAAAATGCTTTGACAGAGACTTGTCTGAGTGTAAACAGTCTGAGGGAAGCAA 6316
Db 1464 GACTGCTCAACTATGTGGAAGTTTAAACATGCTTTAGTTGCAACAGTTTACGAGAAATGCA 1523
QY 6317 CTCACAGACAGTTCGAGGAACTCTTCTGATACCTTGTCTGAGTCCCATGAGGAGTTT 6376
Db 1524 GGCTCAGAAAGTCAGAGGAACACTCTTGTATACCATGCCGACAGCAATGAGAGGAGCTT 1583
QY 6377 TCCGCTCAACGGGACATATTTCCAGTCAACAGATTATTTGACAGCACCAGAGTCCAGTCT 6436
Db 1584 CCACATTATGGACATATTTTCAAGTTAATGAGGTTATTTGTCGACCATGTTTCAAGCCA 1643
QY 6437 CAAACCATCGATGTTCTTAGAGATTGGATATGGGATCTCCCAAGAGGACTGTTTACTT 6496
Db 1644 AAATCCAAATGATGTCACCAAGTGGATATGGGACCTCCCAAGACGAACTGTTTACTT 1703
QY 6497 CGAACATCAGTAACATCAATATTAGAGGTCTTTCAAGCGAGCAGATACAGTTCTGCTT 6556
Db 1704 TGGAACTCAGTCTTCAATATTTAGAGGTTTAAACGACTGAAGAGATCAACAATGCTT 1763
QY 6557 TTGGAAGGATTCGATGTCGCTGATTCGAACAGAGAGACAGAGCAGCCTGCTCAAT 6616
Db 1764 TTGAGAGGATTCGTTTGTGAGGGCTTTTATAGGACAGTAAAGGCAACCAAGGCCCT 1823
QY 6617 AATGCAAGGTTGCAATTTCTCGAGCAAAATTTGAAGAACCAACAAA 6663
Db 1824 TTATGCAAGTTGCAATTTCTCGCAGCAAGGTTGTTAGAGGCAAAA 1870

RESULT 11
US-10-425-115-107691
; Sequence 107691, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 107691
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_2912C.1
US-10-425-115-107691

Query Match 8.4%; Score 575; DB 20; Length 2917;
Best Local Similarity 64.3%; Pred. No. 3.2e-138;
Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;

QY 5300 GGACTATCTTTGAGCATTAAGAGGTCTGGGTTTGAAGTGTGTAATCGTCGACTCTT 5359
Db 504 GGACTTCTTTAAGCATTTAGAGGGCTTGGACTCAAAAGTGTGAGTGGCTCTCTT 563
QY 5360 AACATCCACATCTTGTCTTCCCTGTTGACAGATGTTGGAAGGATAGCAGTTAGAT 5419
Db 564 GACGCTACATCATATGGCTTTTCCAGTGGACAAATGTTGGTCGATATGTTGAGGCT 623
QY 5420 GGGATGGGTGCTCTACAAACCCCTACCTGAATCACTTCAGTTTACACCTCTCTGGAGCTATA 5479
Db 624 TGGATGGGTGCTCTCAACATTTGCCAGAGTCTCTTCACTTGCCTTATTTGGAATGTA 683
QY 5480 CCCAGTGTCTGAGTCCATCCAAATAATTTCTTTGGCCAGAGCTTTGCAAACTCGATCAACG 5539
Db 684 TCCCATGCTGGAGCACATACAGAAAGTACCTTTGGCTCGACTATGCAAGCTAGATCAACG 743
QY 5540 AACCTGTATGAATTACACTACCACTGATGTTGTTGGAAGGTTATTTGCAAAAGG 5599
Db 744 TACATTTGTATGAGTCTTACTACCAATGATTTCTTTTGGAAAGGTTTCTGCACAAAAG 803
QY 5600 TAGACCAATTTGATGATGTCATGTCATGAGAGAGAGTGCAGACACTTTTGGCAGTCTTA 5659
Db 804 TAAGCTTAATTCATTTCAATTCATGTCATGAGAGCTGAATGTAAGCACTTTTGTAGTCAAT 863
QY 5660 TGCTAGTCAAGACTTGTCTTTTACCGGCACACAGAGAGAGGCTTAAACAGTGCACATAT 5719
Db 864 TGCAGAGTGTAGGCTTGTCTTTCCCGCACCTCAAGAAACAACTTTGGCTTACATCGAGGA 923
QY 5720 TCCGCTCCCTCCGAGTCTCTTCTCTGTAGGCTCCGATGATAGAGACTTCTCTTCC 5779
Db 924 TCCAAATGTTGAGAGTTTGTGACCAACATACATAAATTCAGGGGCTGTTTGGCGAAT 983
QY 5780 GTTGGAGAAATCCCTAGCAAGTGGAGACCATCGAATAGAGAAACCTGTGAACCAATAAT 5839
Db 984 TGAGTGGAGTGCAGACTATCTTAAGCATGCTGTTTGTGTAACCTGCAGCCGTTCAATGA 1043
QY 5840 TGAAGAGCGCGCTCGCCGGCAAGAGTGCACCTGAAATTAACCGAGAGTGATTTGAAGA 5899
Db 1044 GGAACCATGTAGCCCAAGCACTGAACTGAAATGTAGAGCGAGGCGGTGCAATAGA 1103
QY 5900 TGCTTATCAATAGAGACCTGTAGAGATCCCAACAAATAAAGTCAACATTTGAACAGTT 5959
Db 1104 GGAATTTCTTAATGAAGACCTGTGATGAAATCTCTACTATTAATCTTAATTTGAGAGTT 1163
QY 5960 TGGATGCTCTACCGGACACATGAAAGAAACA---TGGAGCTCCAAAGAGTGACAT 6016
Db 1164 TACACAGAACTTGAAGAACTATATGCAAGCAACCAATGTTGAGATTGAGTATGCTGACAT 1223
QY 6017 GTCCAGGCTTTGGTTGCTTTGCTATCCAACTACTCTTATTTCCAACTCCCAAACTAA 6076
Db 1224 GTCAAGGCAATTTGTTGCCATCACCTCGAAGTCTTCCATTCCTCAACTCCAAAGCTCAA 1283
QY 6077 GAACATTAGCCTCTCAGGACAGAGACCAAGTGTACGAGCTCCAGATTCACATGCTCT 6136
Db 1284 GAATGTCACTGCTCTTAGGACAGAACCAAGGTTTATGAAGTGTGCAAGTTTCAACCTCT 1343
QY 6137 CTTGATGATGATTAAGAGAACCAAGTATCCAACTGCTTATCTCTTAGCTATATG 6196
Db 1344 TCTGGAAGGATTGAAACAGAGAGAACCAAGTATCCCTGCTGCTATATCTCTTTCCATATG 1403
QY 6197 GACACAGGTGAACAGCGAATTTCCGCAACACCGCTGAAACAGAGTGTGAGGGAAGC 6256
Db 1404 GACCCAGGTGAACCTGCAATCAACCAATGCGCCCAAGACATCTGTGATTCAGGGGA 1463
QY 6257 GTCTGCAAAATGCTTTGACAGAGACTTGTCTGAGTGTAAACAGTCTGAGGGAAGCAA 6316
Db 1464 GACTGCTCAACTATGTGGAAGTTTAAACATGCTTTAGTTGCAACAGTTTACGAGAAATGCA 1523
QY 6317 CTCACAGACAGTTCGAGGAACTCTTCTGATACCTTGTGAGTCCCATGAGGAGTTT 6376
Db 1524 GGCTCAGAAAGTCAGAGGAACACTCTTGTATACCATGCCGACAGCAATGAGAGGAGCTT 1583

QY 6377 TCCGCTCAACGGGACATATTTCCAAAGTCAACAGATTATTTGACAGCCACGAGTCCAGTCT 6436
DB 1584 CCCACTTAATGGGACATATTTCAAGTTAAAGGATATTTGCTGACCAATTTGTTCAAGCCA 1643
QY 6437 CAACCCATCGATGTTCTAGAGATTGGATATGGGATCTCCAAAGAGGACTGTTTACTT 6496
DB 1644 AAATCCAATTGATGTTCCACGAAGTTGGATATGGGACCTCCCAAGACGAACTGTTTACTT 1703
QY 6497 CGGACATACAGTAAATATTTACAGAGTCTTTCAACGGGACGAGATACAGTTCGCTT 6556
DB 1704 TGGACCTTCAGTTCTCAATATTTAGAGGTTTAAAGGACTGAAGAGATACAAATGCTT 1763
QY 6557 TTGGAAGGATTCGTTATGTCGTCGGGATTCGAAACAGAGGACAGGACCGGTCCTT 6616
DB 1764 TTGGAGAGGATTCGTTTGTGAGGGGCTTTGATAGGACAGTAAAGGACCAAGGCCCT 1823
QY 6617 AATGCAAGGTTGCAATTTTCTCGGAGCAAAATTTGAAGAACAAACAAA 6663
DB 1824 TTATGCAAGGTTGCATTTTCTCGCAGCAAGGTTGTTAGAGGCAAAA 1870

RESULT 12
US-10-425-114-8721
; Sequence 8721, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 8721
; LENGTH: 1654
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700789722_FLI
US-10-425-114-8721

Query Match 7.6%; Score 523.8; DB 18; Length 1654;
Best Local Similarity 66.0%; Pred. No. 5e-125;
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGGAGCTATACCCAGTGTCTGAGTCCATCCAAAATTTCTTGGCCAGAGCTTTGCAAC 5529
DB 1 TAGAATGTACCCAGTGTGGAGTCCATACAAAATATCTCTGGCCCGGCTCTGCAAGC 60
QY 5530 TCGATCAACGACACTGTATGAATACACTACCAACTGATTACGTTTGGAAAGGTTATTT 5589
DB 61 TAGACCAAGAACATTTGATGCTGCTATACCACTGATTACATTTGGAAAGGTTCTT 120
QY 5590 GCACAAAGAGTAGACCAAAATTTGATGATGCTTCCAAATGAGAGGAGTGCAGACACTTTG 5649
DB 121 GTACTAAAAGCAAGCAAAATTTGCAATGCTTGGCCAAATGAGAGGGGAATGCAGACACTTTG 180
QY 5650 CCAGTGTCTTGTAGTGCAGACTTGTTCACCGGACCCAGAGGAGGAGGCTTAAACAA 5709
DB 181 CAAGTGCTTTTGCAAAGTGCAGGCTCGCCCTCGCAGGATCAGAGCAGAGATATAGTTA 240
QY 5710 GTGCAACTATTCGGGTCTCCCGAGTCTTTCCTCTGTGATCCATCCCGATGATAGAAC 5769
DB 241 TCAGAACTGGAAACAAATGCACTGAGCAGAACCCATCACTAGTCATCAATCAGCTGCCCT 300
QY 5770 TACCTCTTCGTTGGAGAAATCCCTAGC-----AA 5799
DB 301 TGCCTTCTCCCTGAAATATAAACCAAGCAGAACTTTCAACAAACAGAGTGTACGGCAAC 360

QY 5800 GTGGAGCACCATCGAATAGAGAAACACTGTGAACCAATAATTTGAAGAGCGGCTCGCCG 5859
DB 361 TAGAAGCAAAATCTGAATCAACATCAGCAACCTATTTATTTGAAGAGCAGCAACTCCAG 420
QY 5860 GCGAAGTGTCACTGAATAAACCGAGAGTGTATTTGAAGATGCTTTATCAATAGGAGACC 5919
DB 421 AGCCAGAAATGCTCCCAAGTATCCGAAATATAGAGGATAC---CTTCAATAGGAAAT 477
QY 5920 CTGACGAGATCCCAACAACTCAAACTCAACAGTTGAACAGTTTGGATGATCTACGGGAC 5979
DB 478 CATGTGAAATTTCCCAACATCAAACTAGACATAGAGAGTTTCACTTTGAACCTTACAAAAT 537
QY 5980 ACATGGAAGAAACATGAGGCTCCAAAGAGTGCATGTCCAAGGCTTTTGGTTGCTTTCG 6039
DB 538 ATATGCAAGAAACATGGAACCTTCAAGAGGTGAATGTCAAGGCTTTGGTTGCTCTAC 597
QY 6040 ATCAACAACTACTTCTTATTCCAACTCCCAAACTAAAGAACATTTAGCCGTCTCAGACAG 6099
DB 598 ATCCAGGTGCTGCATGCATTCCTACACCAAGCTGAAGAATGTGAGCCGTTGCGAACAG 657
QY 6100 AGCACAAGTGTACGAGCTCCAGATTCACATCGTCTCTTGTATGGTATGGATATAAAGAG 6159
DB 658 AGCATATGTTTATGAACCTCCCTGATTCACATCCCTTCTGAATGGGTGGAACCAAGCGAG 717
QY 6160 AACGAGATGATCCAAAGTCTTATCTTCTAGCTATATGACACACAGGTGCAACAGCGAAT 6219
DB 718 AACCTGATGATCCAGGCAAAATACCTTCTAGCTATATGACATCCAGGGGAGACAGAGAT 777
QY 6220 CGGCACAAACCGCTTGAACAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGAGC 6279
DB 778 CTATACAGCCACCAAGAAAGCAATGCAGCTCTCAGGAATGTGGCGGCTCTGTAATGAGA 837
QY 6280 AGACTTGTCTGAGTGTAAAGTCTGAGGGAAGCAAACTCAGACAGCTTCGAGGAACTC 6339
DB 838 ATGAATGTTTTTTCATGCAACAGTTTCCGTGAAGCAAGTTTCAAGATGTTGAGGGACAC 897
QY 6340 TTCTGATACCTTGTGGAGTGCCTATGAGAGGAAGTTTCCGTCAAACGGGACATATTTCC 6399
DB 898 TCCTGATACCAATGTGCAACAGCTATGAGGGAGGCTTTCCGTAAATGCGACCTATTTTC 957
QY 6400 AAGTCAACGAGTTATTTGACAGCCAGAGTCCAGTCTCAAAACCCATCGATGTTCTAGAG 6459
DB 958 AAGTCAACGAGTCTTTGACAGCAATGACTCAAGTCTTAAACCAATGATGTTCCCGGAA 1017
QY 6460 ATTGGATATGGATCTCCAAAGAGGACTGTTTACTTCCGGAACATCAGTAAACATCAAT 6519
DB 1018 GTTGGATCTGGAACCTTGTATAGGCGAACAGTGTATTTTGGAACTCTATACCATCTAT 1077
QY 6520 TCAGAGGCTTTTCAACGGGACAGATACAGTGTCTGCTTTTGGAAAGGATTCGTATGTGTC 6579
DB 1078 TCAAGGTTTATCAACAGCAAGAAATTCACAAATGCTTTTGGAGGATATGCTCGCTGC 1137
QY 6580 GTGATTCGAAACAGAGAACAGAGCACCGCTGCCATTAATGGCAAGGTTGCAATTTTCTG 6639
DB 1138 GTGATTTGACCGGAAAGCGAGCACCCCGACCTCTGTTGGCTAGACTACACTTCCCGG 1197
QY 6640 CGAGCAAAATGCAAGAACAA 6660
DB 1198 TTAGCAGGTTGCCTAAGAAATA 1218

RESULT 13
US-10-424-599-28644
; Sequence 28644, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

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FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 28644
LENGTH: 1696
TYPE: DNA
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_125868C.1
US-10-424-599-28644

Query Match
Best Local Similarity 7.6%; Score 523.8; DB 18; Length 1696;
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGAGCTATACCCAGTCTCGAGTCCATCCAAAATTTCTTTGGCCAAAGACTTTTGCAAAC 5529
DB 1 TAGAATTGTACCCAGTGTGGAGTCCATACAAAATATCTCTGGCCCCGGCTCTGCNAGC 60
QY 5530 TCATCAACGAACACTGTATGAATTAACACTACCAACTGATTAGTTTGGAAAGGTATTTT 5589
DB 61 TAGACCAAGAACATTTGTATGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 5590 GCACAAAGAGTAGACCAAAATTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 5649
DB 121 GTACTAAAAGCAAGCCAAATTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
QY 5650 CCAGTCTTATGCTAGTGAAGACTTGTCTTTACCGCCACAGAGGAGGAGCTTAACAA 5709
DB 181 CAAGTCTTTTGAAGTGAAGCTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 5710 GTGCAACTATTCGGTCCCTCCCGAGTCTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 5769
DB 241 TCACAACCTGGAACAAATGCACTGACGACGAAACCCATCACTAGTCACTCACTGCTCCCT 300
QY 5770 TACCTCTCCGTTGGGAAATCCCTAGC-----AA 5799
DB 301 TGCTTCTCCCTGAAATATATAAACAAGCAGAGAACTTCAACAAACAGAAAGTATCAGGCAAC 360
QY 5800 GTGGAGCACCATCGATAGAGAACTGTGAACCAATATTCAGAGCGGCTCGCCG 5859
DB 361 TAGAGCAAAATCTGAAATCAACATCAGCCAACTTATTTGAAGAGCCAGCAACTCCAG 420
QY 5860 GGCAGAGTGCCTGAAATTAACCGAGTGTATTTGAAGATGCTTACTACAATGAGGACC 5919
DB 421 AGCCAGATGCTCCCAAGTATCGAAATGATATAGAGGATAC---CTTCAATGAGGAT 477
QY 5920 CTGACGAGATCCCAACAAATAAATCAATTTGAACAGTGTGGAATGACTTACGGGAAC 5979
DB 478 CATGTGAATTTCCACCATCAACTAGACATAGAGAGTTCATTTTGAACCTTCAAAAAC 537
QY 5980 ACATGGAAGAAACATGGAGCTCCAGAGGTGACATGTCCAAGGCTTTGTTGCTTTC 6039
DB 538 ATATGCAAGAAACATGGAACTTCAAGAGGTGAAATGTCAAGGCTTTGTTGCTTCTAC 597
QY 6040 ATCCAACTACTTCTTATTTCAACTCCCAAACTAAAGAACTATAGCCCTCTCAGGACAG 6099
DB 598 ATCCAGGTCTGATGATCTTCTACACCAAGCTGAGAAATGTGAGCCGCTTCCGAAACAG 657
QY 6100 AGACCAAGTGTACGAGTCCAGATTCACATGCTCTCTGATGATGGAATAAAGAG 6159
DB 658 AGCATTTATGTTATGAATCTCCCTGATTCATCTCCCTTCTGATGATGGAATAAAGAG 717
QY 6160 AACCATGATCCNAGTCTTATCTTCTAGCTATATGACACAGCTGGAACAGCAAT 6219
DB 718 AACCTGATATCCAGCAAAATCTTCTAGCTATATGGAATCTCAGGGGAGACAGAGAT 777
QY 6220 CGGCAAAACCGCTGAAACAGAGTGTGGAGGAAAGCGCTGCGCAAAATGTGCTTTGAGC 6279
DB 778 CTATACAGCCACAGGAAAGCAATGCACTCTCAGGAATGTGCGCGGCTCTGTATGAGA 837
QY 6280 AGACTTGTCTGAGTGTAAACAGTCTGAGGGAAGCAAACTCACAGACAGTTCGAGGAAC 6339
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DB 838 ATGAATGTTTTTTCATGCAACAGTTTCCGTGAAGCAAGTTTCACAGATAGTTTCGAGGACAC 897
QY 6340 TTCTGATACCTTGTGGAGTGCATGAGAGGAGTTTTCGGCTCAACGGGACATATTTCC 6399
DB 898 TCTGATACCATGTGCAACAGCTATGAGAGGAGCTTTCCGTAAATGACCACTATTTTC 957
QY 6400 AAGTCAACAGTATTTTGCAGACCAAGAGTCCAGTCTCAAAACCATCGATGTTCTTAGAG 6459
DB 958 AAGTCAACAGGCTTTTGCAGACCAATGACTCAAGTCTTAAACCAATTAGTGTTCCTCCGAA 1017
QY 6460 ATTGATATGGATCTCCCAAGAGACTGTTTACTTTCGGAACATCAGTAAACATATAT 6519
DB 1018 GTTGGATCTGGAACCTTGTATGCGCAACAGTGTATTTTGGAACTCCATACCATCTATAT 1077
QY 6520 TCAGAGGCTTTTCAACCGAGCAGATACAGTCTGCTTTTGGAAAGGATTCGTATGTGTC 6579
DB 1078 TCAAGGTTTATCAACAGCAAGAAATTTCAACATGCTTTTGGAGAGATATGCTGCGTGC 1137
QY 6580 GTGGATTCGAACAGAGCAAGAGCACCCTGCTTCAATTAATGGCAAGGTTGCAATTTTCTG 6639
DB 1138 GTGGATTTGACCGGAAAGCGAGCACCCTGCTGTTGGCTAGACTACACTTCCCGG 1197
QY 6640 CGAGCAAAATTTGAACACACA 6660
DB 1198 TTAGCAGGTTGCTTAAGAATA 1218

RESULT 14
US-09-840-743-44
; Sequence 44, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamuro, Jack Kishiro
; APPLICANT: Tatariyova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR APPLICATION NUMBER: US 09/553,690
; PRIOR FILING DATE: 2001-04-23
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 758
; TYPE: DNA
; ORGANISM: Lycopersicon esculentum
; FEATURE:
; OTHER INFORMATION: tomato 12624037 EST469495
US-09-840-743-44

Query Match
Best Local Similarity 6.0%; Score 411.8; DB 10; Length 758;
Matches 530; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

QY 5062 TCAGAAAGATGTGGAGGGGATGAAGGAGACAGGAAACAAACAAATATGATTT 5121
DB 4 TGAGAAAGGAGTCCCAATCAAGAGTGGGAAAAAGAAAGCAAGGATGCAATGGACT 63
QY 5122 CCATAGACTATCAAGCAATAAGACGCTGTAGTATCAGCGAGATTTCTGAGGCTTATCAAG 5181
DB 64 CATTGAATCAAGAGCAGTCAAGTGCAGAGTTTAAAGAAATTTCTGATGTTTAAAG 123
QY 5182 AAAGAGGATGAATTAACATGTTGGCCGTACGAAATTAAGGATTTCTTAGAACCGATATTA 5241
DB 124 AACGAGGATGAACCAATGCTGGCAGAGCGAAATTAAGGACTTTCTTCGATAGACTGTTGA 183
QY 5242 AAGATCATGTTGTTGCTGACCTTGAATGTTGAGAGAAATCTCTCTCTGATTAAGCAAG 5301
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Db 184 GGGATCATGGAAAGTATTGACCTAGAACTGATGTTGAGAGATGTGGCCCGACAGAAAGCGAAAG 243
QY 5302 ACTATCTCTTGAGCATTAAGAGCTCTGGGTTTGAAAGTGTTCAAATCGCTGCGACTCTTAA 5361
Db 244 AGTATCTTTTGAGTATTCTGTGACTGGGCTCGAAAGTGTAGAAATGTGTGGCGCTATTAA 303
QY 5362 CACTCCACAATCTGTCTTCCCTGTTTGACACAAATGTTGGAAGGATAGCAGTTAGGATGG 5421
Db 304 CACTTCATACCTTGTCTTCCAGTTGACACAAATGTTGGACGAATAGCTGTGAGATTAG 363
QY 5422 GATGGTGCTCTTAACAACCCCTACCTGAATCACTTCAGTTACACCTCTCCCTGGAGCTATACC 5481
Db 364 GATGGTTCCTCTCCAACCACTCTCTGAGTCCCTGCACTGCTGCACTCTCTTGAATGTATC 423
QY 5482 CAGTCTCGAGTCCATCCAAAATTTCTTTGGCCCAAGACTTTGCAACTCGATCAACGAA 5541
Db 424 CAATTTCTGAGTCAATTCAGAAAGTATCTCTGGCCACGACTCTGCAAGCTCGATCAGAGAA 483
QY 5542 CACTGTATGAATTAACACTACCAACTGATTACGTTTGGAAAGGTAATTTTGCAAAAAGAGTA 5601
Db 484 CACTGTATGAGTTGCACTACCAATGATTACCTTTGGAAAGGTTTCTGCAACCAAGTA 543
QY 5602 GACCAAAATGTTAATGATGTCCAATGAGAGGAGTGACAGACACTTTGCCAGTCTTATG 5661
Db 544 AGCCTAACTGTAAATGATGATGCCCACTGAGAGCTGAATGCAGACACTTTGCTAGTCTTACG 603
QY 5662 CTAGTGCAAGACTTCTTTACCGCACCAGAGAGGAGGCTTAACAAGTCAACTATTC 5721
Db 604 CAAGTGCAAGACTTGTCCCTTCTGGCCCAAGAGAGATAGTGAGTTTCAGCAGTTC 663
QY 5722 CGGTCTCCCTCCAGTCTTCTCTCTGTAGCCATCCGATGATAGAACTACCTCTTCCTG 5781
Db 664 CGATCCCTAGTGAGGGAATGAGCTGCCGCAATCAAGCCCATGCTATTACCCCGAGAGC 723
QY 5782 TGGAGAA 5788
Db 724 TGAAGTA 730

RESULT 15
US-10-425-114-4526
; Sequence 4526, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 4526
; LENGTH: 1543
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700381361_FLI
US-10-425-114-4526

Query Match 5.8%; Score 399.6; DB 18; Length 1543;
Best Local Similarity 60.8%; Pred. No. 1.2e-92;
Matches 730; Conservative 0; Mismatches 449; Indels 21; Gaps 4;
QY 5453 ACTTCAGTTACACCTCTGGAGCTATACCAGTGTCCAGTCCATCCAAAATTTCTTTG 5512
Db 10 AGTACAGCTACATCTCTTGGAGCTATATCTTATCTTGGAAATATACAAAAGATCTTTG 69
QY 5513 GCCAAGACTTTTGCAAACTCGATCAACGAACTGTATGAATTTACACTCAACTGATTAC 5572

Db 70 GCCTCGCTTTGTAACTCGATCAGCAGACACTGTATGAGCTGCATTATCATGATGATTAC 129
QY 5573 GTTTGGAAGGATATTTTGCACAAAGAGTAGACCAAAATTTGTAATGATGTCCAAATGAGAGG 5632
Db 130 ATTTGGAAGGCTTTTGTACCAAAAGACAGCAAAATTTGCAATGATGCCCAATGAGGAG 189
QY 5633 AGAGTGACAGACACTTTGCGAGTGTATGCTAGTGCRAAGACTTGTCTTACCGGACACGAG 5692
Db 190 TGAGTGCAAGCATTTTGAAGTGCAATTTGCAAGTCAAGGCTTGCACCTCTCTGCTCCCA 249
QY 5693 GGAGAGGAGCTTTAAACAAGTGCAACTATTTCCGCTCCCTCCGAGTCTTCTCTCTGTAGC 5752
Db 250 GGAGGAAGACTTTAGTGAAGTTGAGCAATCCATTTGCTTCCAGAAATAGCAGCATGCATC 309
QY 5753 CATCCCGATGATAGAACTACCTCTTCCGTTGGAGAAATCCCTAGCAAGTGGAGACCATC 5812
Db 310 TATGAATTCGACTACCTACCTCGCTTTCAGGGGAGTATCCATTTCAAGGGAGTTTCTTCC 369
QY 5813 GAATAGAGAAACTGTGAACCAATAATTTGAAGCGCGCTCCGCGGCGAGAGTGCAC 5872
Db 370 TAAG-----AACTCAGAGCCAATAATCGAGAGCTTCAAAGTCCAAAGAGGAAGACC 423
QY 5873 TGAATAAACCGAGAGTGATATTGAAGATGCTTACTACAATGAGGACCCCTGACGAGATCCC 5932
Db 424 TCCAGAAACCATGGAATGATATTGAAGATTTTATGAAGA-----TGGTGAATCCC 477
QY 5933 AACATAAACTCAACATTGAACAGTTTGGAAATGACTCTACGGGAACACAT---GGAAG 5989
Db 478 AACATAAAGCTTAACATGGAAGCTTTTGCACAAACTTGGAGAAATTCATTTAAAGAAG 537
QY 5990 AAAATGAGCTCCAAAGAGTGACATGTCCAAGCTTTTGGTTGTCTTGTGATCCCAACAC 6049
Db 538 CAATACCGACTCCAGTCTGATGATATTGCAAAAGCATTTGGTTGCTATTAGCAGTGAAGC 597
QY 6050 TACTTTCTATTCCAACTCCCAAACTAAAGAACATTAGCCGTCTCAGGACAGAGACCAAGT 6109
Db 598 AGCTTCGATTCTCTGTCGAACTAAAGAAATGCTGTAGGCTTCGAAACAGAACACTATGT 657
QY 6110 GTAAGAGTCCAGATTTCACATCGTCTCTTGAT-----GGTATGGATAAAGAGAAC 6163
Db 658 GTATGAGCTTCAGATGCACATCCACTTTTACACAGCTAGGACTTGAACACGGGAACA 717
QY 6164 AGATGATCCAAAGTCTTATCTCTTAGCTATATGGACACAGGTGAACACAGCAATTCGCGC 6223
Db 718 TGATGATCTTACCCCATACTTATTGGCCATATGGACACAGATGGAATAAGGAATAATAC 777
QY 6224 ACAACCGCTGAAACAGAAAGTGTGGAGGGAAGCGCTCTGGCAAAATGTCTTTTGAACGAGAC 6283
Db 778 TAAGACACCAAAACCATCTGTGACCCCTCAAATGGGAGGCGATTTATGCAATAATGAAAT 837
QY 6284 TTGTTCTGAGTGTAACAGTCTGAGGGAAGCAAACTCAAGACAGTTCGAGGAACTCTTCT 6343
Db 838 GTGCCACAATTTGTCTGCAGAGAAAGAAACCAATCTAGATATGTGCAGAGGACCAATTTCT 897
QY 6344 GATACCTTGTCCGACTGCGATGAGAGGAAAGTTTCCGCTCAACGGGACATATTTCCAAAGT 6403
Db 898 GGTTCCTTGTGAAACAGCTATGAGGGGTAGTTTCCACTTAACGSCACTTACTTTCAAGT 957
QY 6404 CAACGAGTTATTTGAGACCAAGTCCAGTCTCAAAACCCATCGATGTTCTTAGAGATTG 6463
Db 958 CAATGAGGTAATTTGCTGACCAAGATCTAGCCACAAACCAATCCATGTGGAAAGGAGAT 1017
QY 6464 GATATGGGATCTCCCAAGAGGACTGTTTACTTTCGGAACATCAGTAACATCAATATTAC 6523
Db 1018 GCTATGGAACCTTGAAGCGCATGCTTTTTCGGGACTTCAGTACCCACCATATTCAA 1077
QY 6524 AGGTCTTTCAACGGAGCAGATACAGTCTCTGCTTTTGGAAAGGATTCGTATGTCCGTGG 6583
Db 1078 AGGTTTAAAGACAGAGAAATACAAATGCTTCTGGAGGGATTTGTCTGTGTGGAGG 1137
QY 6584 ATTCGAAACAGAGAACAGAGCAACCGCTCCATTAATGCGAAGTTGCAATTTTCTGTGGAG 6643

Db 1138 ATTCGACATGGAGACTAGACCAAGGCCCTCTGTGCCCCCATTGACACATTATAGCAAG 1197

Search completed: June 27, 2005, 06:04:27
Job time : 3878 secs

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Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	6873	100.0	6873	4	US-09-553-690-5	Sequence 5, Appli
2	12785	69.7	12785	4	US-09-553-690-1	Sequence 1, Appli
3	1478	21.5	1478	4	US-09-553-690-6	Sequence 6, Appli
4	205	3.0	205	4	US-09-553-690-4	Sequence 4, Appli
5	150.4	2.2	302	4	US-09-313-294A-7228	Sequence 7228, Ap
6	91.6	1.3	7218	1	US-09-313-294A-7228	Sequence 14, Appl
7	71	1.1	7218	1	US-08-232-463-14	Sequence 14, Appl
8	58.2	0.8	612	4	US-09-902-540-1357	Sequence 1357, Ap
9	52.4	0.8	1141	4	US-09-806-708B-22	Sequence 22, Appl
10	52	0.8	1039	4	US-09-902-540-1280	Sequence 1280, Ap
11	50.8	0.7	296	4	US-09-313-294A-5782	Sequence 5782, Ap
12	48	0.7	29686	4	US-09-949-016-16379	Sequence 16379, A
13	48	0.7	36731	4	US-09-949-016-13770	Sequence 13770, A
14	47.4	0.7	2529	3	US-09-434-408-3	Sequence 3, Appli
15	45.8	0.7	2527	4	US-09-244-805-29	Sequence 29, Appl
16	45.6	0.7	260247	4	US-09-949-016-13358	Sequence 13358, A
17	45.4	0.7	614	4	US-09-902-540-1318	Sequence 1318, Ap
18	45	0.7	1141	4	US-09-806-708B-22	Sequence 22, Appl
19	44.6	0.6	554	4	US-09-489-039A-1758	Sequence 1758, Ap
20	44.6	0.6	570	4	US-09-489-039A-1676	Sequence 1676, Ap
21	44.4	0.6	176006	4	US-09-949-016-16804	Sequence 16804, A
22	44.4	0.6	194937	4	US-09-949-016-17032	Sequence 17032, A
23	44.4	0.6	194937	4	US-09-949-016-17033	Sequence 17033, A
24	44.4	0.6	253375	4	US-09-949-016-12849	Sequence 12849, A
25	44.2	0.6	183	4	US-09-621-976-9726	Sequence 9726, Ap
26	44	0.6	2523	4	US-09-861-451A-29	Sequence 29, Appl
27	43.6	0.6	2207	3	US-08-956-322-3	Sequence 3, Appli

Query Match	100.0%;	Score 6873;	DB 4;	Length 6873;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 6873;	Conservative	0;	Mismatches	0;
			Indels	Gaps
			0;	0;
Qy	1	GTTCCTCGGCATTGACTCGCCTGAGAATCAGAAGCTTAGATCGGTGAGCTTTTAGTCTCC	60	
Db	1	GTTCCTCGGCATTGACTCGCCTGAGAATCAGAAGCTTAGATCGGTGAGCTTTTAGTCTCC	60	
Qy	61	ATTTCCTGTTTATTACATATATTTCCTTTTTCCTCTCTCCCTTTTATCTCGGAATT	120	
Db	61	ATTTCCTGTTTATTACATATATTTCCTTTTTCCTCTCTCCCTTTTATCTCGGAATT	120	
Qy	121	TGTTCTGCTAAATTTTCACGCTGTACATTTCCGATCAGAGAGAATCACTGGGTTTT	180	
Db	121	TGTTCTGCTAAATTTTCACGCTGTACATTTCCGATCAGAGAGAATCACTGGGTTTT	180	
Qy	181	TATGTTTAATCAATPACATGTTTCCTGTTTTCGTGATCATAAAATCTCAGCTATTAAACACCTGAT	240	
Db	181	TATGTTTAATCAATPACATGTTTCCTGTTTTCGTGATCATAAAATCTCAGCTATTAAACACCTGAT	240	
Qy	241	TTTGATCTTCGCGTAATAAAAACTCTGATTGTGTTTTTATCTTCACCTTTCCCATATAACAT	300	
Db	241	TTTGATCTTCGCGTAATAAAAACTCTGATTGTGTTTTTATCTTCACCTTTCCCATATAACAT	300	

QY 301 TGCCTTACTTTATTCGCTCTCTTTTACCCTTCCAGCTAATAAATTCCTTGCCTATTCAAT 360
Db 301 TGCCTTACTTTATTCGCTCTCTTTTACCCTTCCAGCTAATAAATTCCTTGCCTATTCAAT 360
QY 361 GTGTTTCTCGTTTGTGTGATGAGAAAATATCTGACAAAAATCAATTTATGCAATTTTAT 420
Db 361 GTGTTTCTCGTTTGTGTGATGAGAAAATATCTGACAAAAATCAATTTATGCAATTTAT 420
QY 421 GGTGCAGATTCTTAGTTAATGTCGCCTTCTCTAAACCAAGTCAGATTAAAGAGAGTGTC 480
Db 421 GGTGCAGATTCTTAGTTAATGTCGCCTTCTCTAAACCAAGTCAGATTAAAGAGAGTGTC 480
QY 481 GTCCATGTTGCTTTGTTTGGTGTGAGAGAGTTTTCGGAGAGTTAGGTGAGTGTAT 540
Db 481 GTCCATGTTGCTTTGTTTGGTGTGAGAGAGTTTTCGGAGAGTTAGGTGAGTGTAT 540
QY 541 TTGGGTGAGGTAGTGATAAGGTTTGAAGGGGAGTGATTCAATCAAGTGTGTTATGAAAT 600
Db 541 TTGGGTGAGGTAGTGATAAGGTTTGAAGGGGAGTGATTCAATCAAGTGTGTTATGAAAT 600
QY 601 CGAGGCTGATTCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAAACAG 660
Db 601 CGAGGCTGATTCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAAACAG 660
QY 661 AGTTTCATGGTTCCTCGATTCCATTTACACCCAAAAAACCCTAGATCAAGTCTGATGGTAG 720
Db 661 AGTTTCATGGTTCCTCGATTTCATTTACACCCAAAAAACCCTAGATCAAGTCTGATGGTAG 720
QY 721 ATGAGAGAGTGATAAACACAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 780
Db 721 ATGAGAGAGTGATAAACACAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 780
QY 781 GATTCGCAACACTGTGTGGATCATATAATGGGGTTTTGATCATGTGTCTCATCAGGGCG 840
Db 781 GATTCGCAACACTGTGTGGATCATATAATGGGGTTTTGATCATGTGTCTCATCAGGGCG 840
QY 841 TTACCAACTTAAAGTATGATCAATAGCTTAGCGGGATCAGATGACAAAGCTTGGAGTA 900
Db 841 TTACCAACTTAAAGTATGATCAATAGCTTAGCGGGATCAGATGACAAAGCTTGGAGTA 900
QY 901 ATAGTGAGAGAGATCTTTTGGGAGGAGTGAGTGACTTCTCCTTTAGCACAGATTATCA 960
Db 901 ATAGTGAGAGAGATCTTTTGGGAGGAGTGAGTGACTTCTCCTTTAGCACAGATTATCA 960
QY 961 GAAACACCAACCGGTAAATGATAGACCGGTCAATGGAATTTTACTCAGATGCGGTATGG 1020
Db 961 GAAACACCAACCGGTAAATGATAGACCGGTCAATGGAATTTTACTCAGATGCGGTATGG 1020
QY 1021 TAAATGGTCTTTACCCAGAGTGGACATCTCAAGCTGGCTATATGATGATTTG 1080
Db 1021 TAAATGGTCTTTACCCAGAGTGGACATCTCAAGCTGGCTATATGATGATTTG 1080
QY 1081 ATGACTTGTGTAATCTCGATCAGATGCCCTTCTCCTTCAAGCTTGTGAGTGGGG 1140
Db 1081 ATGACTTGTGTAATCTCGATCAGATGCCCTTCTCCTTCAAGCTTGTGAGTGGGG 1140
QY 1141 ATAGCTTATTCAGGTTTCGTCAATGTGAGTGATCAAAATCTATTTTCAGTTTTTTTTTTC 1200
Db 1141 ATAGCTTATTCAGGTTTCGTCAATGTGAGTGATCAAAATCTATTTTCAGTTTTTTTTTTC 1200
QY 1201 CCTTTCTCCGTTCTTGCAGTACTTAGAGTAGAACATGATTAATGATATCTTAAGAAAGT 1260
Db 1201 CCTTTCTCCGTTCTTGCAGTACTTAGAGTAGAACATGATTAATGATATCTTAAGAAAGT 1260
QY 1261 CATGGTTTTGAAACAGATGGACCTCCAGCGGTGAACCAAGCCTCTTTTACAAATTTGAAATTCAC 1320
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Db	5225	AGCCAGCCAATGTGTTGGAGATATAGCAACAAAAAGCCCTGAAAGTCACACTCAAAAGTTGCA	5284
Qy	1861	GAAGAAGCTTTGAAATTTTGACTTGGAGAAATCCTGTGAGATGCGAGCAAGTGACTCTGAGT	1920
Db	5285	GAAGAAGCTTTGAAATTTTGACTTGGAGAAATCCTGTGAGATGCGAGCAAGTGACTCTGAGT	5344
Qy	1921	CTGAAATTTGTCACAGAACTAGTAGTGGCGCAAACTCGTTTTCTGAGATCAGAGATGCCAATTC	1980
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Qy	1981	GTGAAACTTAATGGTAGTTTCTCGGATTCAGTGTCCAAATAGACAAGCAACCAATGGATTTGG	2040
Db	5405	GTGAAACTTAATGGTAGTTTCTCGGATTCAGTGTCCAAATAGACAAGCAACCAATGGATTTGG	5464
Qy	2041	GGGCTATGAACACGACCACTTGAAGTGTCAATGGGAAACCGAGCCAGATTAACACTATCTACAG	2100
Db	5465	GGGCTATGAACACGACCACTTGAAGTGTCAATGGGAAACCGAGCCAGATTAACACTATCTACAG	5524
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Db	5525	GAGCGAACTGGCCAGAGACCAACAACTGATTTATTGACTAGAAAACCAACAATGCCAGT	5584
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Db	5705	ACGAGCAGCTTGCTGCGCATGGGTAAATCAACAACCTATGTATCTGATAGGAACCTCCAC	5764
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Qy	2461	ACATGCATCAACTTGTATGTCAACCGGAGGCAACCACTGGACTACTCATTAAGAAACC	2520
Db	5885	ACATGCATCAACTTGTATGTCAACCGGAGGCAACCACTGGACTACTCATTAAGAAACC	5944
Qy	2521	AGCAACTGGATCATTAATAGAGGCCAGAGCCCTTCGTAACCTTTGATTTGAACCAAGCAAC	2580
Db	5945	AGCAACTGGATCATTAATAGAGGCCAGAGCCCTTCGTAACCTTTGATTTGAACCAAGCAAC	6004
Qy	2581	CTGCAACTCCAAAAGTTTTTACTCACTTGAATTCAGATGGTAGCTACAGCATGTCAATGCG	2640
Db	6005	CTGCAACTCCAAAAGTTTTTACTCACTTGAATTCAGATGGTAGCTACAGCATGTCAATGCG	6064
Qy	2641	CTGGGCTTCGACCTTCTTCAGTTCAGATTCAGATTCCTTCAACATATCTACATGTGGAATCTG	2700
Db	6065	CTGGGCTTCGACCTTCTTCAGTTCAGATTCAGATTCCTTCAACATATCTACATGTGGAATCTG	6124
Qy	2701	TTTCCAGATTTTGAATGGGACTACAGGTACATGCCAGAGAAGCAGGGCTCCTGCAATACG	2760
Db	6125	TTTCCAGATTTTGAATGGGACTACAGGTACATGCCAGAGAAGCAGGGCTCCTGCAATACG	6184
Qy	2761	ATTCTTTACAGCAAGATATCCATCAAGGAATAAGTACATCTTTCTCATGAGATATCCA	2820
Db	6185	ATTCTTTACAGCAAGATATCCATCAAGGAATAAGTACATCTTTCTCATGAGATATCCA	6244

QY	2821	ATGTTAATTGGGTGCAAGAAACGGTTTACTCCTCGCCAACTCTTCCTCTGCCAACTCCCAATTATGG	2880
DB	6245	ATGCTTAATTGGGTGCAAGAAACGGTTACTCCTCAAACCTCTTCCTGCCAACTCCCAATTATGG	6304
QY	2881	CTAAACTTTGAGGAACCGACGAGGCCTCGAAGAGACAGTAGTATCATCGTGCAATGGGACAGACGG	2940
DB	6305	CTAAACTTTGAGGAAGAACCGAGGCGCTCGAAGAGACAGTAGTATCATCGTGCAATGGGACAGACGG	6364
QY	2941	AAAAAGCATGATCTAAACCTTAGCTCAAACAGAGATTGCTCAATCACAGATGTGTGGAGACATA	3000
DB	6365	AAAAGCATGATCTAAACTTAGCTCAAACAGAGATTGCTCAATCACAGATGTGTGGAGACATA	6424
QY	3001	ACAGCAGCAGTGTGTGGAATATTTAGATGCTGCAAGAAAGAAACGAAATATCCAGNAAGTAG	3060
DB	6425	ACAGCAGCAGTGTGTGGAATATTTAGATGCTGCAAGAAAGAAACGAAATATCCAGNAAGTAG	6484
QY	3061	TCCAAGAAAAATTTGCATGGCATGCCACTCAGAGTTATAGAATATCGAGGATGATCCAACTG	3120
DB	6485	TCCAAGAAAAATTTGCATGGCATGCCACTCAGAGTTATAGAATATCGAGGATGATCCAACTG	6544
QY	3121	ATGGGGCAAGAAAGGTAAAAATATCTGCCAGCATCAGTAAAGTGCATCTTAAAGGAAACT	3180
DB	6545	ATGGGGCAAGAAAGGTAAAAATATCTGCCAGCATCAGTAAAGTGCATCTTAAAGGAAACT	6604
QY	3181	CGTCTCCAGTTTAAAAAGCAGCAGAAAGAGAGAAATGTATTGTGCCAAAACGCCCTCGAA	3240
DB	6605	CGTCTCCAGTTTAAAAAGCAGCAGAAAGAGAGAAATGTATTGTGCCAAAACGCCCTCGAA	6664
QY	3241	AAAAAGGGTCGAGCAGGTAGAAAAAATCAGTACCCTCGCCTGCTCATGCTCTCAGAGATCC	3300
DB	6665	AAAAAGGGTCGAGCAGGTAGAAAAAATCAGTACCCTCGCCTGCTCATGCTCTCAGAGATCC	6724
QY	3301	AGCTTTGGCAACCTATCTCTCCAAAGACACTTTTATCAAGAGCGAAGCCTTAAAGGAAAG	3360
DB	6725	AGCTTTGGCAACCTATCTCTCCAAAGACACTTTTATCAAGAGCGAAGCCTTAAAGGAAAG	6784
QY	3361	GGAGAAAGTCCATACAAGATTCCAGAAAAACGAAAG-----	3394
DB	6785	GGAGAAAGTCCATACAAGATTCCAGAAAAACGAAAGTAAGTATGTATTCTACAATCTC	6844
QY	3395	-----	3394
DB	6845	TGTGATATAATTTTTGAGATTTTAGTAACTGATGTGTCCAAACCCAGCTCTTTTACACTGTT	6904
QY	3395	-----AGTCCCATCAGGAGAACTTCTGTGTCAGGATTTCTATTTCGGGAAATAAT	3442
DB	6905	GGTCGGTTGTATAGGTCCATCAGAGAACTTCTGTGTCAGGATTTCTATTTCGGGAAATAAT	6964
QY	3443	TTACAGGATGCAAAATCTGTATCTTAGGAGACAAAGAAAGAGAAACAGAGCAAAATGCAAT	3502
DB	6965	TTACAGGATGCAAAATCTGTATCTTAGGAGACAAAGAAAGAGAAACAGAGCAAAATGCAAT	7024
QY	3503	GGTCTTGTAACAAAGGAGATGGTGCACTTGTTCCCTATGAGAGCNAGAGCGNAAACCAAG	3562
DB	7025	GGTCTTGTAACAAAGGAGATGGTGCACTTGTTCCCTATGAGAGCNAGAGCGNAAACCAAG	7084
QY	3563	ACCCAAAGTTGACATTGACATGAAACAACTCGCATATGAACTTACTGATGGGAAAGG	3622
DB	7085	ACCCAAAGTTGACATTGACATGAAACAACTCGCATATGAACTTACTGATGGGAAAGG	7144
QY	3623	AGATGAAAAAGAGGGGATGAAGAGAGAGATTAAGAAAGAGAGAGTGTGTGGGAAAGA	3682
DB	7145	AGATGAAAAAGAGGGGATGAAGAGAGAGATTAAGAAAGAGAGAGTGTGTGGGAAAGA	7204
QY	3683	AAGAAGAGTCTTCCGAGGAAGGGCTGATTCCTTCATCGCTCGCATGCACCTGGTACAA--	3739
DB	7205	AAGAAGAGTCTTCCGAGGAAGGGCTGATTCCTTCATCGCTCGCATGCACCTGGTACAAAG	7264
QY	3740	-----	3739
DB	7265	TGAAGATCCACTTCTCTTCACTCCATCTTTTATTTTATTCACAAATTAGTAGAATACTCAA	7324

QY 3740 ----- 3739
Db 7325 AAATGATGTTTCTGTTGCAAAATTTTAAATTCACAGTGTCAATAATATTC 7384
QY 3740 ----- 3739
Db 7385 ATAATGATCTTGTGAAGAACAGGTGTGCATTTATGGTGACAGCTGAATGTTATGTGC 7444
QY 3740 ----- 3749
Db 7445 CTATTATTTCTTACTGCTATAGATGACCAATTTGAACCTTTAAACGTTTACAGGAGATAGA 7504
QY 3750 CGTTTTTGGCCATGGAAGGATCGGTGGTTGATTCGGTCAATTCGGAGTTTCCCTTACACAG 3809
Db 7505 CGTTTTTGGCCATGGAAGGATCGGTGGTTGATTCGGTCAATTCGGAGTTTCCCTTACACAG 7564
QY 3810 AATGCTCGGATCACCTTTCA----- 3830
Db 7565 AATGCTCGGATCACCTTTCAAGGTATATGAGTTGCTTAAATTAATGAGTTCCAAACA 7624
QY 3831 ----- 3859
Db 7625 TAGAATTAACCCATGGTGGTTTACAAATCGAGCTCTGGCTTCATGCTCTAGCTGCTCG 7684
QY 3860 ATTCCCTCCAAATTAAGCAGAGCCGAGAGATGAAGAAATGTTAGAAAGCTAGTTGT 3919
Db 7685 ATTCCCTCCAAATTAAGCAGAGCCGAGAGATGAAGAAATGTTAGAAAGCTAGTTGT 7744
QY 3920 TGAAGATCCAGAGGATGCAATTCGAACTTAAATGAATTCCTTCGTCGAGGAAAGGT 3979
Db 7745 TGAAGATCCAGAGGATGCAATTCGAACTTAAATGAATTCCTTCGTCGAGGAAAGGT 7804
QY 3980 TCAACATCTGACATGGAAGTTTCTGGGGTTGATGAGTGAATCAAAAGCAGCAGCTAAG 4039
Db 7805 TCAACATCTGACATGGAAGTTTCTGGGGTTGATGAGTGAATCAAAAGCAGCAGCTAAG 7864
QY 4040 GGAATGTTCAAACTCTGGAATGAAGATTAATTTCTTAGAAGAGATTAATCAAAATTT 4099
Db 7865 GGAATGTTCAAACTCTGGAATGAAGATTAATTTCTTAGAAGAGATTAATCAAAATTT 7924
QY 4100 AGAAGAGGAGTATTATCATCAAGATTTTGTGATTCGGCGATATTTCAAGTCGTGCG 4159
Db 7925 AGAAGAGGAGTATTATCATCAAGATTTTGTGATTCGGCGATATTTCAAGTCGTGCG 7984
QY 4160 GAGAGTTGATCTGTTTCAATTCAGATCAGACGAGATTTCTTACAAACAGAGTGTGA 4219
Db 7985 GAGAGTTGATCTGTTTCAATTCAGATCAGACGAGATTTCTTACAAACAGAGTGTGA 8044
QY 4220 AACAAAACTGTGAGTGAACATCAATCAGTGCAGAACTGGAGCCCAAACTTGTCTGA 4279
Db 8045 AACAAAACTGTGAGTGAACATCAATCAGTGCAGAACTGGAGCCCAAACTTGTCTGA 8104
QY 4280 TGAATTTGCTTCAAGGATGAGAGCCGATCTATATGAGGATCTGGTGTATTTCA 4339
Db 8105 TGAATTTGCTTCAAGGATGAGAGCCGATCTATATGAGGATCTGGTGTATTTCA 8164
QY 4340 GAAACAGAACTACAAATGCTGCTCAGAGAACTGATCTTGAAGAACTGAATGATG 4399
Db 8165 GAAACAGAACTACAAATGCTGCTCAGAGAACTGATCTTGAAGAACTGAATGATG 8224
QY 4400 GAAAGACTGCTGTTTGGTCAGCAAGAAATGATTAATTTGGCAACAACTCTTTC 4459
Db 8225 GAAAGACTGCTGTTTGGTCAGCAAGAAATGATTAATTTGGCAACAACTCTTTC 8284
QY 4460 CAGCAGTATGACAGTGTGCGATCTGACAGCCACATGATGATGATGAGGATTTTGG 4519
Db 8285 CAGCAGTATGACAGTGTGCGATCTGACAGCCACATGATGATGATGAGGATTTTGG 8344
QY 4520 AATGCAAGGTGAAGGCTTGGTTATTTCTTGGATGTCATCTCACCAGAGTTTCAAGAGT 4579
Db 8345 AATGCAAGGTGAAGGCTTGGTTATTTCTTGGATGTCATCTCACCAGAGTTTCAAGAGT 8404
QY 4580 AAAGAAACAAATGTACACGAGGTTTTTTCAGACAAAGGTGGAAGTGTTCACAGAGATTT 4639

Db 8405 AAAGAAACAAATGTACACGAGGTTTTTTCAGACAAAGGTGGAAGTGTTCACAGAGATTT 8464
QY 4640 CACAGGTGAGATCATACCATCAACGCTCATGAAATTTACCAAGGAATGGGATTTGTCGGTTC 4699
Db 8465 CACAGGTGAGATCATACCATCAACGCTCATGAAATTTACCAAGGAATGGGATTTGTCGGTTC 8524
QY 4700 CTCACGCGCGTCCAAAGAACACCAAGGACGATACCCAACTAAATCAACAAGATGAGATGAA 4759
Db 8525 CTCACGCGCGTCCAAAGAACACCAAGGACGATACCCAACTAAATCAACAAGATGAGATGAA 8584
QY 4760 TAAAGCATCCCATTTTCAAAAAACATTTTGGATCTGCTCAACTCTCTGCAAGATGCTCT 4819
Db 8585 TAAAGCATCCCATTTTCAAAAAACATTTTGGATCTGCTCAACTCTCTGCAAGATGCTCT 8644
QY 4820 TACAAGACAGTCCAGTACCAAAACAGAAACATCAGGATGGCTGTCTACCGAGAGATGAAC 4879
Db 8645 TACAAGACAGTCCAGTACCAAAACAGAAACATCAGGATGGCTGTCTACCGAGAGATGAAC 8704
QY 4880 TGCTGAAGACGTTGATCCGCTCAGTAACTCAATTCAGCTTACAGAACTATTTGGTCTGA 4939
Db 8705 TGCTGAAGACGTTGATCCGCTCAGTAACTCAATTCAGCTTACAGAACTATTTGGTCTGA 8764
QY 4940 ATCAATTTCCAGCAATAAAGAGCAGCGGAGTTGAATCAAGGAGACAAATGCCACTAT 4999
Db 8765 ATCAATTTCCAGCAATAAAGAGCAGCGGAGTTGAATCAAGGAGACAAATGCCACTAT 8824
QY 5000 TTTTACAGAGATGAAAGGAGCGCTTCTGATGGGAAAGCCCTACAAGCCAGTGGGATAG 5059
Db 8825 TTTTACAGAGATGAAAGGAGCGCTTCTGATGGGAAAGCCCTACAAGCCAGTGGGATAG 8884
QY 5060 TCTCAGAAAGATGTGGAGGGAATGAAGGAGACAGGAAACGAAACAAATATGGA 5119
Db 8885 TCTCAGAAAGATGTGGAGGGAATGAAGGAGACAGGAAACGAAACAAATATGGA 8944
QY 5120 TTCCATAGACTATGAAGCAATAAGACGTGTAGTATCAGGAGATTTCTGAGGCTATCAA 5179
Db 8945 TTCCATAGACTATGAAGCAATAAGACGTGTAGTATCAGGAGATTTCTGAGGCTATCAA 9004
QY 5180 GGAAGAGGAGTGAATAACATGTTGGCCGTACGAATTAAGGATTTCTTAGAACGGATG 5239
Db 9005 GGAAGAGGAGTGAATAACATGTTGGCCGTACGAATTAAGGATTTCTTAGAACGGATG 9064
QY 5240 TAA 5242
Db 9065 TGA 9067

RESULT 3

US-09-553-690-6
; Sequence 6, Application US/09553690
; Patent No. 6476296
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Seed and
; TITLE OF INVENTION: Fruit Development in Plants
; FILE REFERENCE: 023070-099900US
; CURRENT APPLICATION NUMBER: US/09/553,690
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 1478
; TYPE: DNA
; ORGANISM: Arabidopsis sp.
; FEATURE:
; OTHER INFORMATION: ATROPOS (ATR) 5' untranslated region
US-09-553-690-6

Query Match

21.5%; Score 1478; DB 4; Length 1478;

Best Local Similarity 100.0%; Pred. No. 0;		Matches 1478; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1	GTCTCCGGCATGACTCGCTCAGAAATCAGAAAGCTTAGTCGGTGAGCTTTTAGCTCC	60
Db	1	GTCTCCGGCATGACTCGCTCAGAAATCAGAAAGCTTAGTCGGTGAGCTTTTAGCTCC	60
Qy	61	ATTTTCGTGTTTATTACATATATTTCCCTTTTCTCTCCCTTTTATCTCGAAAT	120
Db	61	ATTTTCGTGTTTATTACATATATTTCCCTTTTCTCTCCCTTTTATCTCGAAAT	120
Qy	121	TGTTCTGCTAAATTTTCCAGCTGTTTACATTTTCCGATCAGAGAAATCACTGGGTTTT	180
Db	121	TGTTCTGCTAAATTTTCCAGCTGTTTACATTTTCCGATCAGAGAAATCACTGGGTTTT	180
Qy	181	TATGTTAANTCAATACATAGTTCCTGTTTCTGATCATAAATCTCAGCTATTAACACCTGAT	240
Db	181	TATGTTAANTCAATACATAGTTCCTGTTTCTGATCATAAATCTCAGCTATTAACACCTGAT	240
Qy	241	TTTGATTTCTGCGTAATAAAACCTCTGATTTGCTTTTATCTTCCACATTTCCCCATAAAT	300
Db	241	TTTGATTTCTGCGTAATAAAACCTCTGATTTGCTTTTATCTTCCACATTTCCCCATAAAT	300
Qy	301	TGCTTACTTTTATTCGCTCTCTTTTACCGTTTCCAGCTAAATAATTTCTCGCTATTCAAT	360
Db	301	TGCTTACTTTTATTCGCTCTCTTTTACCGTTTCCAGCTAAATAATTTCTCGCTATTCAAT	360
Qy	361	GTGTTTCTGTTTGTGATGAGAAATATCTGACAAAAATCAATTTATGCTATTTAT	420
Db	361	GTGTTTCTGTTTGTGATGAGAAATATCTGACAAAAATCAATTTATGCTATTTAT	420
Qy	421	GGTGAGATTTCTAGTTAATGTCGCTCTCTTAACCAAGTCAGATTAAAGAGGTGTC	480
Db	421	GGTGAGATTTCTAGTTAATGTCGCTCTCTTAACCAAGTCAGATTAAAGAGGTGTC	480
Qy	481	GTCCATGTTGCTTTGTTGTTGGAGAGATTTTCGGAGAGTTTTCGGAGTGTGTTAT	540
Db	481	GTCCATGTTGCTTTGTTGTTGGAGAGATTTTCGGAGAGTTTTCGGAGTGTGTTAT	540
Qy	541	TTGGGTGAGGTAGTATAGTTTGAAGGGGAGTGATTCATCAAGTGTGTTATGAAT	600
Db	541	TTGGGTGAGGTAGTATAGTTTGAAGGGGAGTGATTCATCAAGTGTGTTATGAAT	600
Qy	601	CGAGGCTCATCCGGGATAGATATTTTCGAGTTCCTTTGGAGATCAAACTCAACAAG	660
Db	601	CGAGGCTCATCCGGGATAGATATTTTCGAGTTCCTTTGGAGATCAAACTCAACAAG	660
Qy	661	AGTTCAATGGTTCCTGGATTCATTTACACCAAAAAAATCTAGATCAAGTCTGATGGTAG	720
Db	661	AGTTCAATGGTTCCTGGATTCATTTACACCAAAAAAATCTAGATCAAGTCTGATGGTAG	720
Qy	721	ATGAGAGAGTGATAACACGAGTCTAAATGGGTTTCCAGTGGTGAATTTAGACAGGG	780
Db	721	ATGAGAGAGTGATAACACGAGTCTAAATGGGTTTCCAGTGGTGAATTTAGACAGGG	780
Qy	781	GAATTCGCAACACTGGTGGATCATATATGGGTTTTCATGATGGTCTCATCAGGGCG	840
Db	781	GAATTCGCAACACTGGTGGATCATATATGGGTTTTCATGATGGTCTCATCAGGGCG	840
Qy	841	TTACCAACTTAAGTATGATCAATAGCTTTACCGGGATCACATGCACAAGCTTGGAGTA	900
Db	841	TTACCAACTTAAGTATGATCAATAGCTTTACCGGGATCACATGCACAAGCTTGGAGTA	900
Qy	901	ATAGTGAGAGATCTTTTGGCAGAGTGAGTGATCTCTTTTAGCACCAAGTTATCA	960
Db	901	ATAGTGAGAGATCTTTTGGCAGAGTGAGTGATCTCTCTTTTAGCACCAAGTTATCA	960
Qy	961	GAACACCAACCGGTATAGACCGGTCAATGGAAATTTTACTTCAGATGCGGTATGG	1020
Db	961	GAACACCAACCGGTATAGACCGGTCAATGGAAATTTTACTTCAGATGCGGTATGG	1020
Qy	1021	TAAATGGTCTTTACCCAGTGGCACCTTCTCAAGCTGGCTATATAGTTGAATTCG	1080
Db	1021	TAAATGGTCTTTACCCAGTGGCACCTTCTCAAGCTGGCTATATAGTTGAATTCG	1080
Qy	1081	ATGACTTTGTTGAATCCTGATCAGATGCCCTTCTCTTCAAGCTTGCCTGAGTGGGG	1140
Db	1081	ATGACTTTGTTGAATCCTGATCAGATGCCCTTCTCTTCAAGCTTGCCTGAGTGGGG	1140
Qy	1141	ATAGCTTTATTTCAAGGTTTCTCAATGTGAGTGATCAAAATCTATTTTTCAGTTTTTTTTC	1200
Db	1141	ATAGCTTTATTTCAAGGTTTCTCAATGTGAGTGATCAAAATCTATTTTTCAGTTTTTTTTC	1200
Qy	1201	CTTTCTTCCGTTCTGAGTACTTAGAGTGAACAATAGATAATCTTAAGAAAGT	1260
Db	1201	CTTTCTTCCGTTCTGAGTACTTAGAGTGAACAATAGATAATCTTAAGAAAGT	1260
Qy	1261	CATGTTTTTGAACAGATGAGCTCCAGCGTGAACAAGCTCTTTTCAATTTGAATTCAC	1320
Db	1261	CATGTTTTTGAACAGATGAGCTCCAGCGTGAACAAGCTCTTTTCAATTTGAATTCAC	1320
Qy	1321	CAATTAGAAGAAGCAGTTGGGTCACTGTGAAAGTTCGTTTCAATATGTACCGTCAA	1380
Db	1321	CAATTAGAAGAAGCAGTTGGGTCACTGTGAAAGTTCGTTTCAATATGTACCGTCAA	1380
Qy	1381	CGCCAGCTCTGTTTCAGAACAGGTGAAAGTCTGATTTCCCTGAAACAGATAGTAACTA	1440
Db	1381	CGCCAGCTCTGTTTCAGAACAGGTGAAAGTCTGATTTCCCTGAAACAGATAGTAACTA	1440
Qy	1441	CTGGACATGAATCCAGAGCGGAATCTGACAAAAGT	1478
Db	1441	CTGGACATGAATCCAGAGCGGAATCTGACAAAAGT	1478
RESULT 4			
US-09-553-690-4			
; Sequence 4, Application US/09553690			
; Patent No. 6476296			
; GENERAL INFORMATION:			
; APPLICANT: Fischer, Robert L.			
; APPLICANT: Choi, Yeonhee			
; APPLICANT: Hannon, Mike			
; APPLICANT: The Regents of the University of California			
; TITLE OF INVENTION: Nucleic Acids that Control Seed and			
; TITLE OF INVENTION: Fruit Development in Plants			
; FILE REFERENCE: 023070-099900US			
; CURRENT APPLICATION NUMBER: US/09/553,690			
; CURRENT FILING DATE: 2000-04-21			
; NUMBER OF SEQ ID NOS: 50			
; SOFTWARE: FastSeq for Windows Version 3.0			
; SEQ ID NO 4			
; LENGTH: 205			
; TYPE: DNA			
; ORGANISM: Arabidopsis sp.			
; FEATURE:			
; OTHER INFORMATION: ATROPOS (ATR) 3' flanking sequence			
US-09-553-690-4			
Query Match		3.0%; Score 205; DB 4; Length 205;	
Best Local Similarity		100.0%; Pred. No. 6.6e-47;	
Matches 205; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	6669	AGATGACTGGAAGAAGCAACGCAATGCTTCTCTGCTCTCTCTATTTAAAGCCAGGAA	6728
Db	1	AGATGACTGGAAGAAGCAACGCAATGCTTCTCTGCTCTCTCTATTTAAAGCCAGGAA	60
Qy	6729	AGTCCCATTTAGACATATACAGGAATCCAAATAGGCTATTTCTCTTTCTTTCTTAT	6788
Db	61	AGTCCCATTTAGACATATATACAGGAATCCAAATAGGCTATTTCTCTTTCTTTCTTAT	120
Qy	6789	TTTCAATTCATAGACGAGAGCGACACAAAAAGTTTTTTGGGTTATTTATTTCTCTCTAA	6848
Db	121	TTTCAATTCATAGACGAGAGCGACACAAAAAGTTTTTTGGGTTATTTATTTCTCTCTAA	180
Qy	6849	CAAAAAAATAAAAAAACTCGAG	6873

```
Db 181 CAAAAAATAAAAAAAAAAACTCGAG 205

RESULT 5
US-09-313-294A-7228
; Sequence 7228, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 7228
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700381361H1
; NAME/KEY: unsure
; LOCATION: 128
; OTHER INFORMATION: a, t, c, g, or other
US-09-313-294A-7228

Query Match 2.2%; Score 150.4; DB 4; Length 302;
Best Local Similarity 70.8%; Pred. No. 1.6e-31;
Matches 199; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 5455 TTCAAGTTACACCTTCCTGGAGCTATACCCAGTGTCTGAGTCCATCCCAAAATTTCTTTGCG 5514
Db 1 TACAGTACATCTCTTGGAGCTATATCTTCTTGGAACTATACAAAGTATCTTTGCG 60

QY 5515 CAAGACTTTGCAAACTCGATCAACGACACTGTATGAATTTACACTACCAACTGATTACGT 5574
Db 61 CTCGCTTTGTTAACTCGATCAGCAGACACTGTATGAGTGCATTATCAGATGATTACAT 120

QY 5575 TTGGAAGGTATTTTCACAAAGAGTAGACCAAAATTTGATGATGTCATGTCATGAGGAG 5634
Db 121 TTGGAAGGCTTTTGTACAAAGAGCAGCCAAATTTGCAATGCAATGCCCAATGAGGAGTG 180

QY 5635 AGTGACAGACTTTGCGAGTCTTATGTAGTCAAGACTTTGCTTACCGGACACAGAGG 5694
Db 181 AGTGCAAGCATTTTGAAGTGCATTTGCAAGTCAAGGCTTGCACTTCTGCTCCCGAG 240

QY 5695 AGAGGAGCTTAAACAGTCAACTATTTCGGTCCCTCCCGAG 5735
Db 241 AGGAAGCTTAGTGAAGTTGAGCAATCCATTTGCTTTCCAG 281

RESULT 6
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZ9pt-P18
US-08-232-463-14

Query Match 1.3%; Score 91.6; DB 1; Length 7218;
Best Local Similarity 2.6%; Pred. No. 3.6e-14;
Matches 10; Conservative 256; Mismatches 120; Indels 0; Gaps 0;

QY 3339 AGAGCAACCCCTAAGGAAAGGAGAGATCCATACAGATTCAGGAAAGCAAGAGGT 3398
Db 1436 ACRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1377

QY 3399 CCATCAGAGAGAACTTCTGTGTGAGGATTCATTGCGGAAATAATTTACAGGATGCAAAAT 3458
Db 1376 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1317

QY 3459 CTGTATCTTAGGAGACAAAGAAAGAGAGCAAGAGCAAAATGCAATGCTTTGTACAAGGA 3518
Db 1316 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1257

QY 3519 GATGTGCACTTGTTCCTTATGAGCAAGAGCAAGCAAGCAAGCAAGCAAGCAAGTTCACATT 3578
Db 1256 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1197

QY 3579 GACGATGAAACAACTCGCATATCGAACTTACTGATGGGAAAGAGAGATGAAAGAGAGG 3638
Db 1196 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1137

QY 3639 GATGAAGAGAGGATAAAAGAAAGAGAGAGTGTGGAGAGAGAGAGAGAGAGTCTTCGGA 3698
Db 1136 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1077

QY 3699 GGAAGGCTGATTCCTTCATCGCTCG 3724
Db 1076 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1051

RESULT 7
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
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